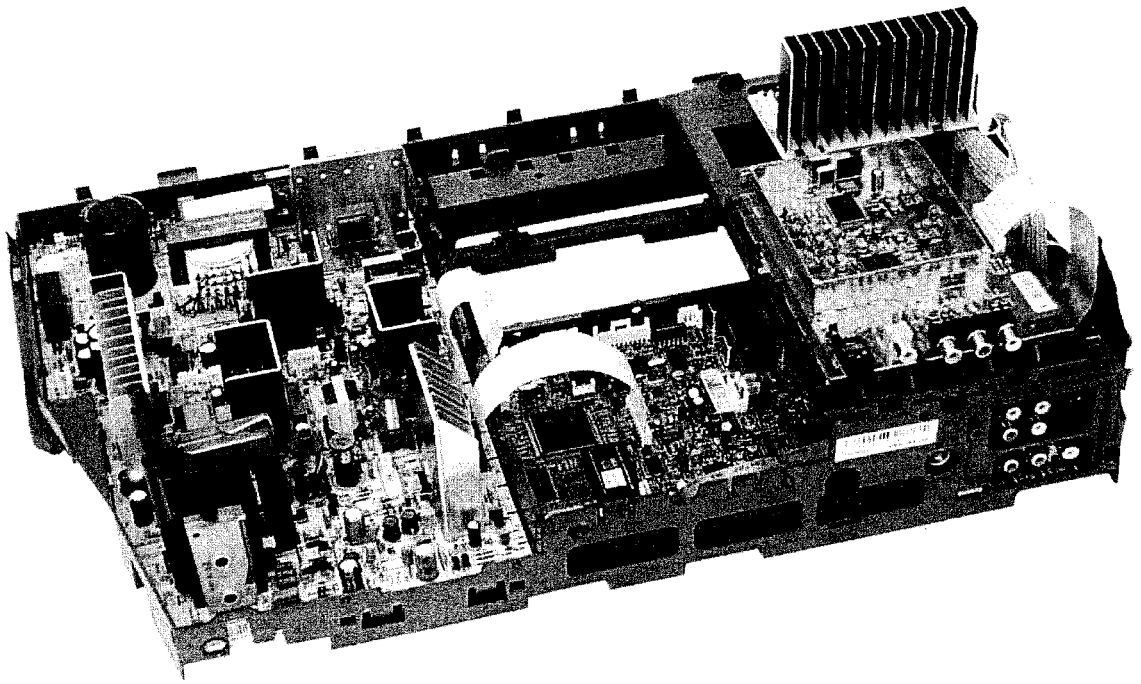
THOMSON MULTI MEDIA

Brandt FERGUSON SABA TELEFUNKEN THOMSON

TV

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

ICC21



Do not disconnect modules when they are energized!
Repairs on power supply section are to be carried out only with isolating transformer.

Ne pas retirer les modules lorsqu' ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement.

Module nicht bei eingeschaltetem Gerät entfernen!
Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.

Non scollegare le piastre quando sono alimentate!
Per le riparazioni sulla sezione alimentatore, utilizzare un trasformatore isolatore.

No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione dei componenti di sicurezza (evidenziati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER :
On UHF,input level : 1 mV, bar test pattern :
- PAL, I standard, 100% white.

Via the scart socket, input level : 1 Vpp, bar test pattern :

Colour, contrast and brightness at mid-position, sound at minimum.
Programme selected : PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

RECEPTEUR :
En UHF, niveau d'entrée 1 mV mire de barres
- SECAM, Norm L, Blanc 100%.

Par la prise Péritélévision, niveau d'entrée 1 Vcc, mire de barres .

Couleur, contraste, lumière à mi-course, son minimum.
Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER :
Bei UHF Eingangspegel 1 mV, Farbbalken :
- PAL, Norm G, Weiss 100%.

Über die Scartbuchse : Eingangspegel 1 Vss, Farbbalken :

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RICEVITORE :
In UHF, livello d'entrata 1 mV, monoscopio barre :
- PAL, norma G. bianco 100%.

Via SCART, livello d'entrata 1 Vpp, monoscopio barre :

Colore. Contrasto, Luminositá media, Suono minimo.
Programma selezionato PR 01.

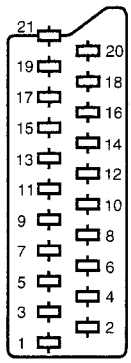
Tensioni continue rilevate rispetto alla massa con un voltmetro digitale.

RECEPTOR :
En UHF, nivel de entrada 1 mV, mira de barras :
- PAL, norma G, blanco 100%.

Por la toma Peritelevision, nivel de entrada 1 Vpp mira de barra.

Color, Contraste, luz a mitad de carrera, Sonido mínimo.
Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltimetro digital.



NOTE : (MAIN) *... etc. identifies each pcb module.*

NOTE : (MAIN) *... etc. repères des platines constituant l'appareil.*

HINWEIS : (MAIN) *... usw. Kennzeichnung der Platinen, aus denen das Gerät zusammengesetzt ist.*

NOTA : (MAIN) *... ecc. sigla delle piastre dell' apparecchio.*

NOTA : (MAIN) *... etc. marcas de las placas que constituyen el aparato.*

		ENGLISH	FRANÇAIS	DEUTSCH	ITALIANO	ESPAÑOL
1	⊖→	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2	→⊕	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3	⊖→	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4	⊥	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5	⊥	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6	→⊕	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "S" MONO	AUDIO "I" MONO
7	→⊕	"BLUE"	"BLEU"	"BLAU"	BLU	AZUL
8	→⊕	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	"COMMUTAZIONE LENTA"	"CONMUTACION LENTA"
9	⊥	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10	NC					
11	→⊕	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
12	NC					
13	⊥	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
14	NC					
15	→⊕	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
16	→⊕	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
17	⊥	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18	⊥	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
19	⊖→	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20	→⊕	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRO	VIDEO O SINCRO
21	⊖→	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	INVOLUCRO METALLICO DELLA PRESA	BLINDAJE DEL ENCHUFE

→⊕ : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA • ⊖→ : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA • ⊥ : EARTH - MASSE - MASSE - MASSA - MASA

INFORMATION - INFORMATIONS - INFORMATIONEN
INFORMAZIONE - INFORMACIONES

(EN) The **ICC21** chassis is equipped with two main boards :
- Power/Scan Board :PSB - Designation: **C21PB21M**... and Small Signal Board: SSB - Designation: **C21SB21M**...

Chassis group table
1 - The electronic chassis configuration (modules) and schematic diagram page numbers.
2 - The modules configuration.

(FR) Les chassis **ICC21** sont constitués de deux platines principales:
- Platine Balayage/Alimentation: PSB-Désignation: **C21PB21M**... et Platine petits signaux: SSB-Désignation: **C21SB21M**..

Le tableau ci-dessous regroupe :
1 - L'environnement électronique de chaque chassis (modules) et le numéro de page où il est décrit.
2 - La désignation des modules.

(DE) Das Chassis **ICC21** besteht im wesentlichen aus zwei Hauptleiterplatten:
- Netzteil/Ablenk-Platine: PSB - Bezeichnung: **C21PB21M** ... ; Signal-Platine: SSB - Beszeichnung: **C21SB21M** ...

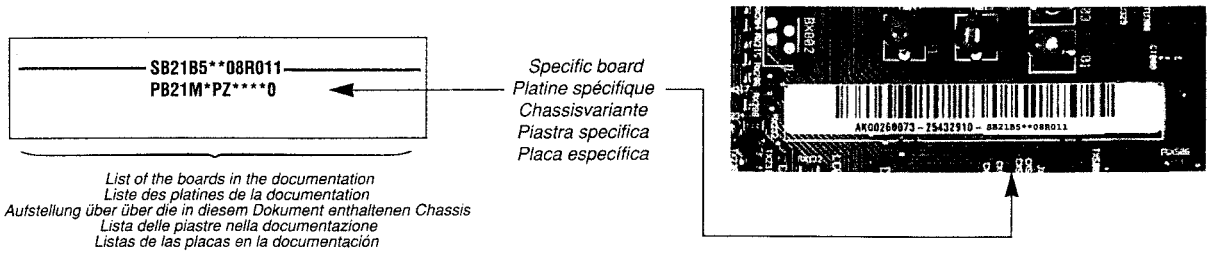
Die folgende Tabelle der Chassisgruppen stellt dar:
1 - Die Baugruppen der einzelnen Chassisvarianten und die Seitenzahlen des dazugehörigen Schaltbildes.
2 - Die Modulbestückung der Chassisvarianten.

(IT) Il telaio **ICC21** è formato da due piastre principali :
- Piastra Deflessione/Alimentazione : PSB - Descrizione: **C21PB21M** ... ; Piastra Piccoli Segnali : SSB - Descrizione: **C21SB21M** ...

La tabella in basso indica:
1 - La configurazione elettronica del telaio (moduli) ei numeri di pagina del relativo schema.
2 - La configurazione dei moduli.

(ES) El chasis **ICC21** está compuesto por dos placas principales :
- Placa Alimentación / Barridos (PSB), denominada : **C21PB21M** ... ; y la placa de pequeñas señales (SSB), Denominada : **C21SB21M** ...
- En la tabla siguiente se pueden ver:

1 – La configuración electrónica de cada chasis (módulos) y el número de página donde está el esquema.
2 – La denominación de los módulos.



List of the boards in the documentation
Liste des platines de la documentation
Aufstellung über über die in diesem Dokument enthaltenen Chassis
Lista delle piastre nella documentazione
Listas de las placas en la documentación

DESCRIPTION	BLK./WIR. DIAGR. SERV.PÒS	ADJUST-MENTS	POWER / SCAN BOARD POWER (PP)	SCAN (DP)	PSB PCB	SMALL SIGNAL BOARD POWER (SPP)	REMOTE (RP)-OSD	FRONT-END (FE)	CONVERT. (UC)	VIDEO (VP)	AUDIO (AP)	TUNER	SSB PCB	CRT	DYN. FOCUS	SCART	FCB KDB
C21 PB21 M*EZ****0* SB21 M5**08R740	5 - 10 5 - 10	11- 26 11- 26	27 - 28	33-34	35-40	45- 46	47 - 52	53 - 60	69 - 70	71 - 72	79 - 85	87-88	89-94	73-78	-	-	95-96
C21 PB21 M*PZ****0* SB21M5**08R740	5 - 10 5 - 10	11 - 26 11 - 26	27 - 28	29-30	35-40	45- 46	47 - 52	53 - 60	69 - 70	71 - 72	79 - 85	87-88	89-94	73-78	-	86	95-96
C21 PB21 M*EZ****0* SB21 M5**08R040	5 - 10 5 - 10	11 - 26 11 - 26	27 - 28	33-34	35-40	45- 46	47 - 52	61 - 68	69 - 70	71 - 72	79 - 85	87-88	89-94	73-78	-	-	95-96
C21 PB21 M*GW****0* SB21 M5**08R040	5 - 10 5 - 10	11 - 26 11 - 26	27 - 28	31-32	35-40	45- 46	47 - 52	61 - 68	69 - 70	71 - 72	79 - 85	87-88	89-94	73-78	41-42	-	95-96
C21 PB21 M*IW****0* SB21 M5**08R740	5 - 10 5 - 10	11 - 26 11 - 26	27 - 28	31-32	35-40	45- 46	47 - 52	53 - 60	69 - 70	71 - 72	79 - 85	87-88	89-94	73-78	43-44	-	95-96

INFORMATION - INFORMATIONS - INFORMATIONEN
INFORMAZIONE - INFORMACIONES

(EN) OUT OF FACTORY MODE

To set TV into "**out of factory mode**", ready for a **new installation**:
- Put the TV into **standby** mode.
- Press the **VOL +** button on the TV keyboard for 8 seconds.

(FR) SORTIE DE MODE PRODUCTION

Pour initialiser le téléviseur en position **"sortie de mode production"** prêt pour une **nouvelle installation**:
- Mettre le téléviseur en position "**veille**" avec la télécommande.
- Appuyer sur la touche **VOL+** du clavier du téléviseur pendant 8 secondes.

(DE) AUSLIEFERUNGSZUSTAND

Um für eine **Neuinstallation** das Gerät in den **"Auslieferungszustand"** zu versetzen:
- Schalten Sie das Gerät in "**Standby**" Modus.
- Halten Sie die **VOL+** Taste am lokalen Bedienteil für 8 Sekunden fest.

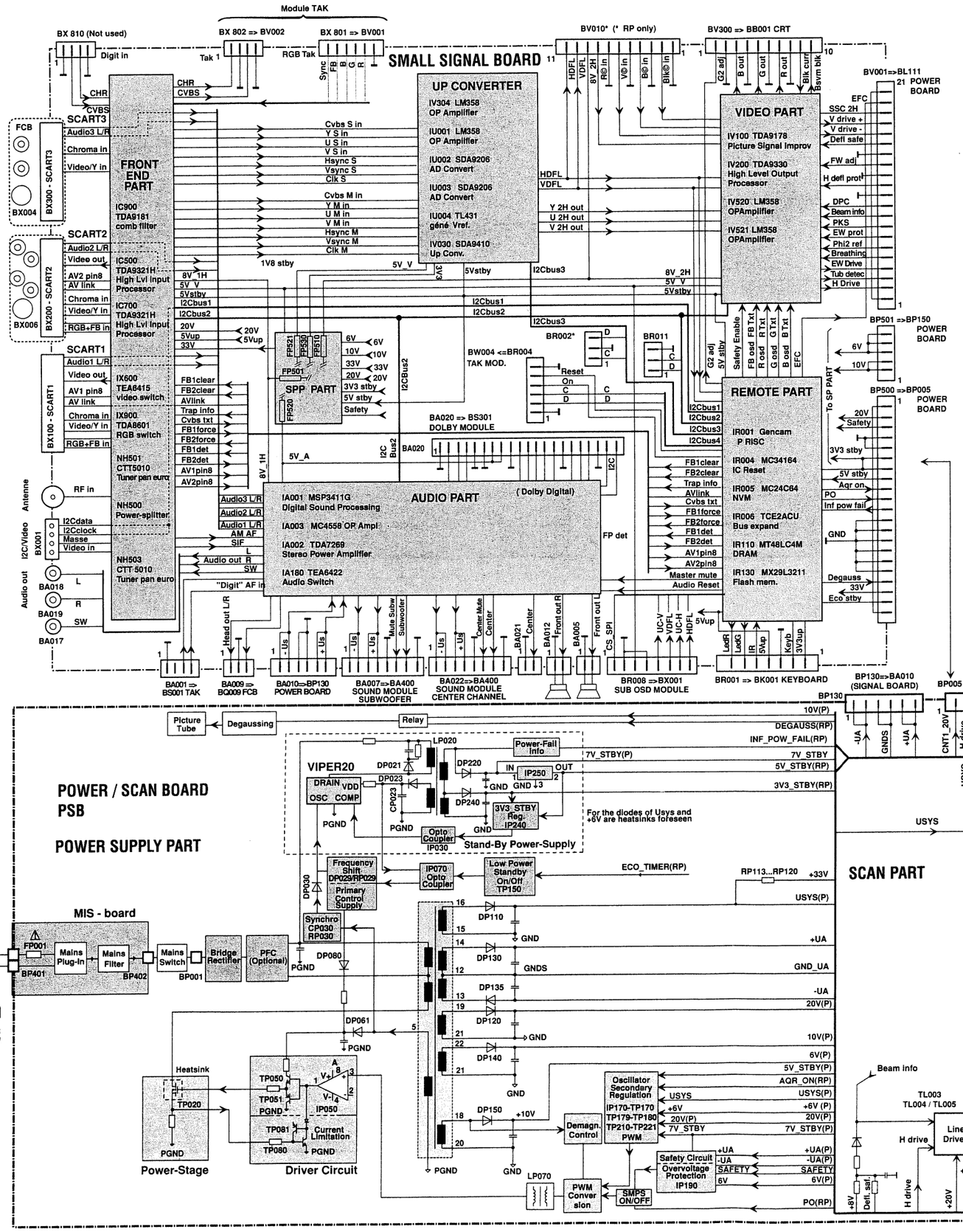
(IT) MODO DEL TV ALL'USCITA DELLA FABBRICA

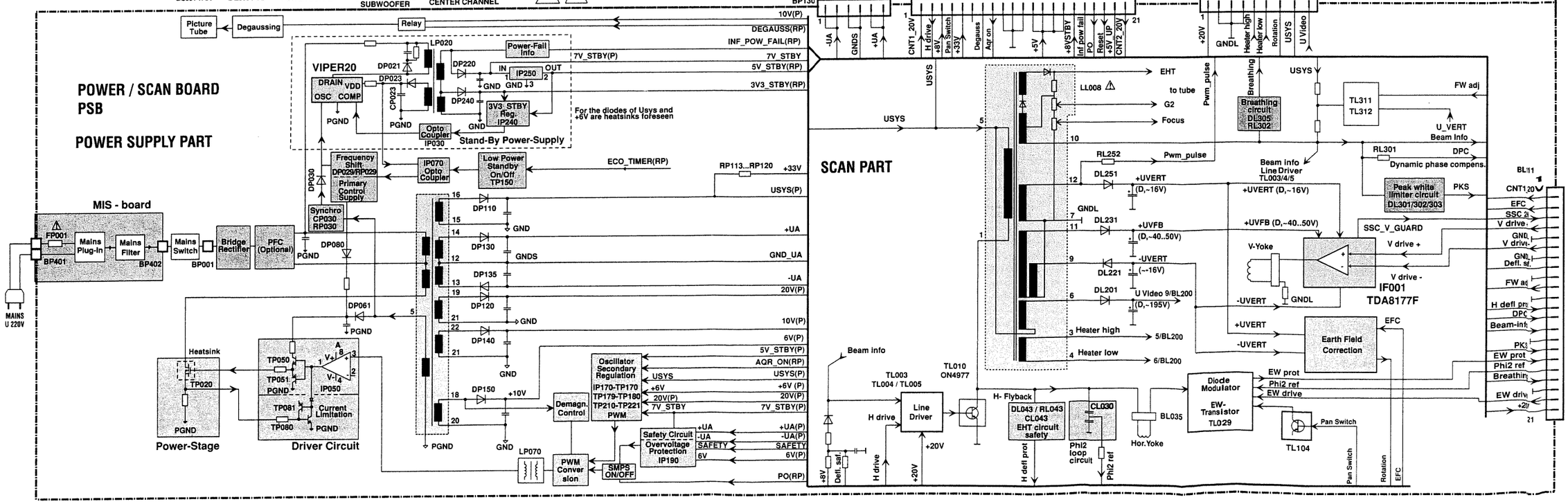
Per mettere il TV " **nel modo all'uscita della fabbrica**" pronto per una **nuova installazione**:
-Posizionare il TV in modo **Standby**.
- Premere il tasto **volume+** della tastiera locale per 8 secondi.

(ES) SALIDA DEL MODO PRODUCCIÓN

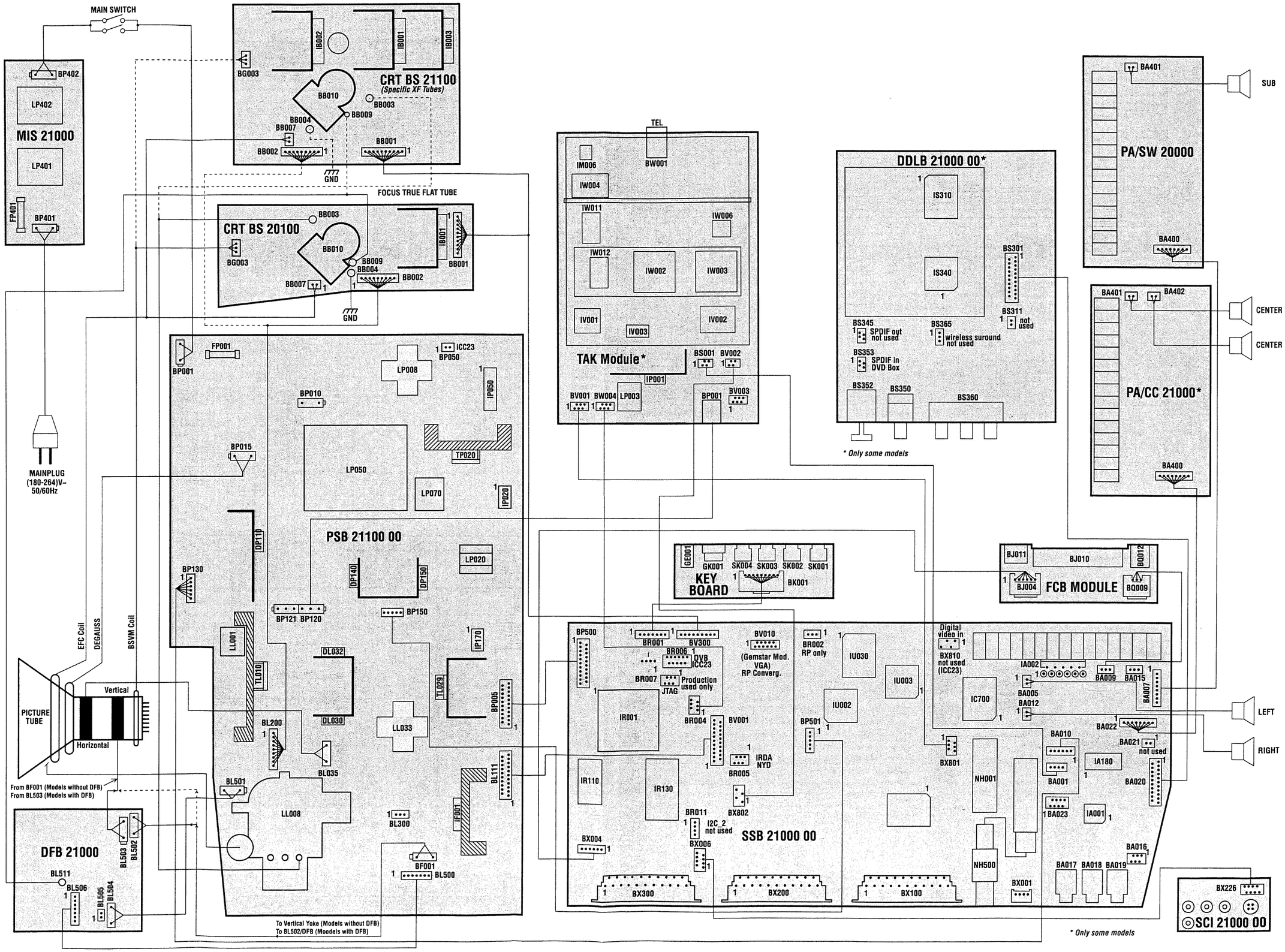
Para salir del '**modo producción**', quedando dispuesto para una **nueva instalación**:
- Poner el TV en modo **Standby**.
- Mantener pulsada la tecla "**Volumen +**" del teclado durante unos 8 segundos.

BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES





WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES



SERVICE POSITION - POSITION SERVICE - SERVICESTELLUNG - POSIZIONE SERVIZIO - POSICIÓN SERVICIO

A - CHASSIS - CHASIS

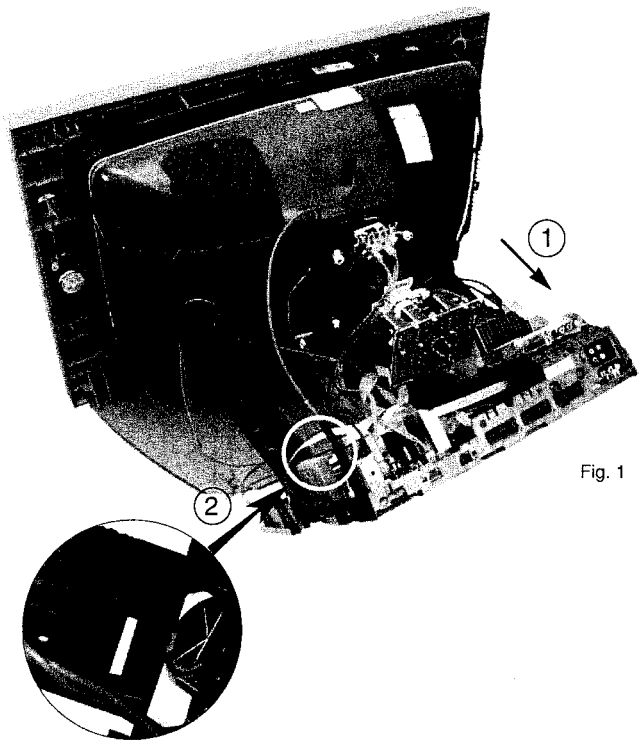


Fig. 1

1- Raise lightly the chassis, pull it (1) up to an intermediate position to get free.
2- Tip the chassis and insert the small tongue (2) in extremity of the maintain rail to fix the chassis in service position (Fig.1).

1- Soulever légèrement le chassis et le tirer (1) jusqu'à une position intermédiaire pour le dégager.
2- Basculer le chassis et engager les languettes (2) en extémité des réglettes de maintien pour fixer le chassis en position de service (Fig.1).

1- Heben Sie das Chassis leicht an und ziehen es nach hinten halb heraus. Heben Sie das Chassis aus den Führungsschienen.
2- Kippen Sie das Chassis und hängen es mit den Laschen (2) am Chassisrahmen in die sich am Ende der Führungsschienen befindlichen Ösen (Fig.1) ein.

1- Sollevare leggermente il telaio e tirarlo (1) fino ad una posizione intermedia per poterlo estrarre.
2- Inclinare e inserire le linguette (2) nelle apposite guide per mantenere il telaio fisso nella posizione service(Fig.1)

1- Alzar ligeramente el chasis, y dejarlo en una posición intermedia (1)
2- Bascular el chasis e insertar las lengüetas (2) en los extremos, para mantener el chasis fijo en la posición de servicio (Fig. 1).

B - POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS

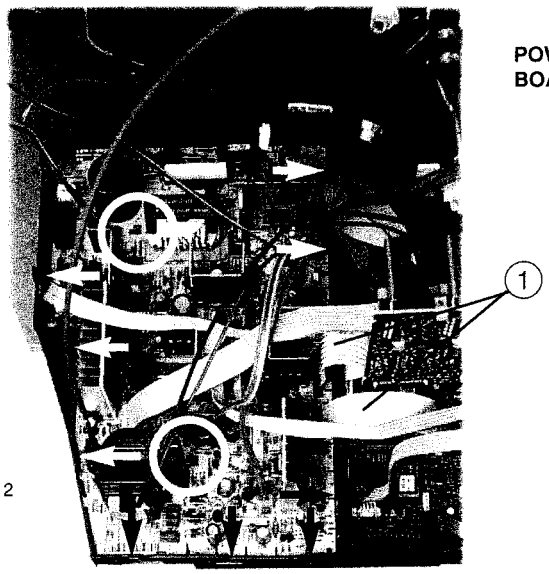


Fig. 2

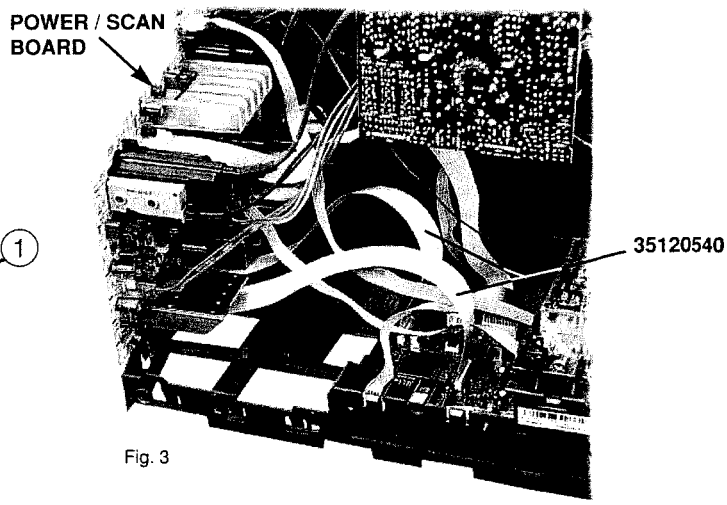


Fig. 3

1 - Remove the two connection cable PSB/SSB (1) (Fig.2) and get free the "PSB" board from the chassis in pressing the maintain tongue (9 in periphery and 2 in the board) (Fig.2) . Put the two extension cable PSB/SSB (35120540) (Fig.3).
2 - Put the PSB board in service position (Fig. 3)

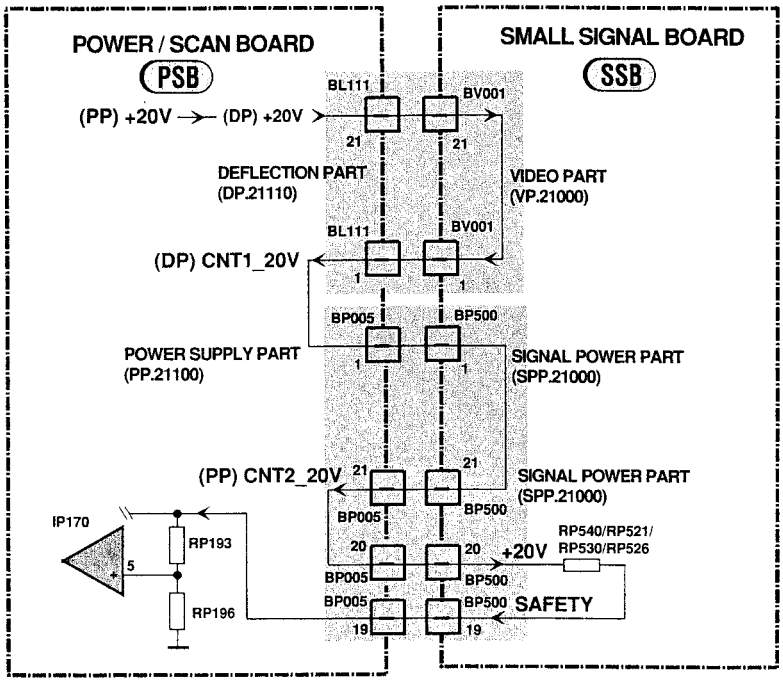
1 - Retirer les cordons de raccordement PSB/SSB (1) (Fig.2) et dégager la platine "PSB" du chassis en appuyant sur les languettes de maintien (9 en périphérie et 2 en interne) (Fig.2) . Mettre les cordons prolongateurs de raccordement PSB/SSB (35120540) (Fig.3).
2 - Mettre la platine PSB en position de service (Fig. 3)

1 - Entfernen Sie die beiden Verbindungskabel PSB/SSB (1) (Fig.2). Zum Ausbau der PSB-Platine lösen Sie die 9 Halteklammern um die Platine herum und die 2 Klammern in der Platine wie (Fig.2) dargestellt. Stecken Sie die Verlängerungskabel PSB/SSB (35120540) (Fig.3) ein.
2 - Bringen Sie die PSB-Platine in die Service-Position (Fig. 3).

1 - Togliere idue cavi di collegamento PSB/SSB (1) (Fig.2) e liberare la piastra "PSB" dal telaio premendo le linguetto di fissaggio (9 periferiche e due interne) collegare le prolunghe PSB/SSB (35120540) (Fig.3).
2 - Sistemare la piastra PSB in posizione di service (Fig. 3).

1 – Retirar los dos cables de conexión PSB/SSB (1) (Fig.2) y soltar la placa "PSB" del chasis presionando las lengüetas (9 en la periferia y 2 en la placa) (Fig. 2). Enchufar los dos cables prolongadores PSB/SSB (35120540) (Fig.3).
2 – Poner la placa PSB en la posición de servicio (Fig. 3)

CONNECTING SAFETY POWER BOARD / SIGNAL BOARD
SECURITE DE CONNEXION PLATINES PUISSANCE / PETITS SIGNAUX
VERBINDER ZWISCHEN NETZTEIL/ABLENK-PLATINE UND SIGNAL-PLATINE
COLLEGAMENTI DI SICUREZZA DELLA PIASTRA POTENZA/PIASTRA SEGNALI
CONEXIONES DE LA SEGURIDAD ENTRE LA PLACA ALIMENTACIÓN / SEÑAL



EN

The **20V** voltage which is fed in a loop **CNT1_20V => CNT2_20V** through the connectors going to the signal processing boarder in order to insure a good connection between both boards and to protect the **PSB** and the **SSB** boards :
CNT1_20V => protecting the cable connections BL111 / BV001
CNT2_20V => protecting the cable connections BP005 / BP500
If one of these voltage does not exist (20V comprise) the IP170 output will be 0 and the phototransistor IP070 is blocked and the SMPS will be in standby.

FR

Le cheminement de la tension **20V** par la platine petits signaux est effectué sous forme de boucle **CNT1_20V => CNT2_20V** afin de protéger les platines **PSB** et **SSB** en cas de mauvaise connexion des nappes BR003 et BV003.
CNT1_20V => sécurité de la nappe BL111 / BV001
CNT2_20V => sécurité de la nappe BP005 / BP500.
Si l'une de ces tensions (20V inclu) n'est pas présente la sortie de IP170 passe à 0 entraînant le blocage du photo-transistor IP070 et par suite le passage en standby.

DE

Um die **PSB**- und die **SSB**-Platinen zu schützen und um eine sichere Betriebsspannungsversorgung dieser Platinen zu gewährleisten, ist die **+20V-Versorgungsschiene (CNT1_20V => CNT2_20V)** über die Verbinder BV001 und BR003 durchgeschleift.
CNT1_20V => Schutz über Flachbandkabel BL111 / BV001
CNT2_20V => Schutz über Flachbandkabel BP005 / BP500
Sollte eine dieser Betriebspannungen fehlen, wird der Ausgang des IC IP170 (Pin 7) 0V, der Fototransistor im Optokoppler IP070 sperrt und das Gerät schaltet in Standby.

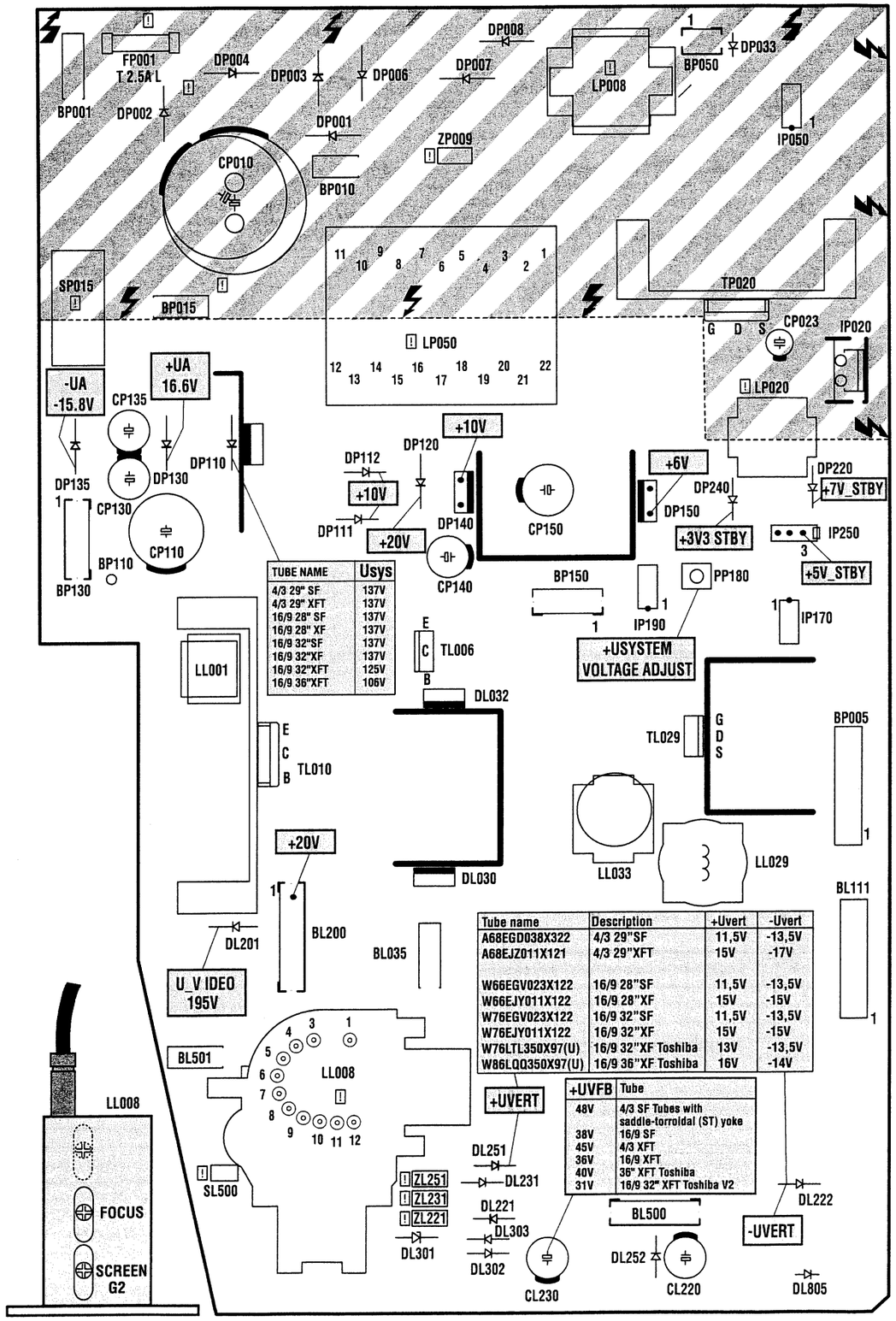
IT

L'alimentazione di **20V** alla piastra elaborazione segnali viene fornita dai connettori **CNT1_20V => CNT2_20V** in modo da assicurare une protezione delle piastre **PSB** e **SSB** nel caso che si manifesta se un cattivo collegamento.
CNT1_20V => protezione BL111 / BV001
CNT2_20V => protezione BP005 / BP500
Se una di queste tensioni 20V non fosse presente l'uscita di IP170 passa a 0V determinando il blocco del phototransistor IP070 e il successivo passaggio in standby.

ES

El recorrido de la tensión de **20V** por la placa SSB se efectúa en forma de bucle **CNT1_20V => CNT2_20V** con el fin de proteger las placas **PSB** y **SSB** en el caso de un fallo de los conectores
CNT1_20V => seguridad del mazo BL111 / BV001
CNT2_20V => seguridad del mazo BP005 / BP500
Si una de estas tensiones faltan (incluidos los 20 V), la salida de IP70 será 0, el fototransistor IP070 se bloquea y el TV pasará a Standby (modo espera)

LOCATION OF CONTROLS - EMPLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGULATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



TUBE NAME	Usys
4/3 29" SF	137V
4/3 29" XFT	137V
16/9 28" SF	137V
16/9 28" XF	137V
16/9 32"SF	137V
16/9 32"XF	137V
16/9 32"XFT	125V
16/9 36"XFT	106V

Tube name	Description	+Uvert	-Uvert
A68EGD038X322	4/3 29"SF	11,5V	-13,5V
A68EJZ011X121	4/3 29"XFT	15V	-17V
W66EGV023X122	16/9 28"SF	11,5V	-13,5V
W66EJY011X122	16/9 28"XF	15V	-15V
W76EGV023X122	16/9 32"SF	11,5V	-13,5V
W76EJY011X122	16/9 32"XF	15V	-15V
W76LTL350X97(U)	16/9 32"XF Toshiba	13V	-13,5V
W86LQQ350X97(U)	16/9 36"XF Toshiba	16V	-14V

+UVFB	Tube
48V	4/3 SF Tubes with saddle-toroidal (ST) yoke
38V	16/9 SF
45V	4/3 XFT
36V	16/9 XFT
40V	36" XFT Toshiba
31V	16/9 32" XFT Toshiba V2

Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello châssis collegata alla rete.
Parte del chasis conectada a la red

Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un transformatore per isolarvi dalla rete

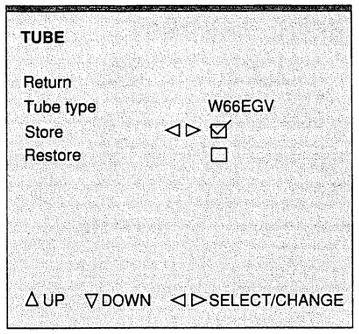
ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

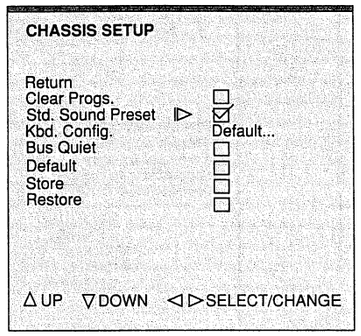
U Sys	PP180	Standard TV - Settings : ☼+◑+◑=50% TV to AV1 : Black test pattern	V= DP 110

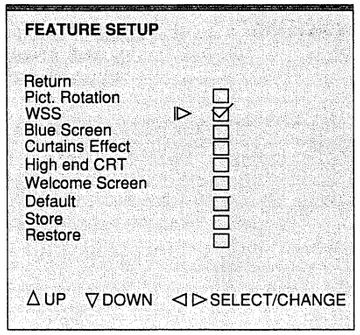
Tube name	Description	Usys jumper	RP900 Usys divid.	Usys
A68EGD038X322	4/3 29"SF	JP912	33K2	137V
A68EJZ011X121	4/3 29"XFT	JP912	33K2	137V
W66EGV023X122	16/9 28"SF	JP912	33K2	137V
W66EJY011X122	16/9 28"XF	JP912	33K2	137V
W76EGV023X122	16/9 32"SF	JP912	33K2	137V
W76EJY011X122	16/9 32"XF	JP912	33K2	137V
W76LTL350X97(U)	16/9 32"XFT	JP911	22K1	125V
W86LQQ350X97(U)	16/9 36"XFT	JP911	2K74	106V

U G2 SERVICE MODE	SERVICE MODE G2 potentiometer : SCREEN	-Select and enable the "G2 Alignment" item in VIDEO menu of the Service Mode : the displayed will change to a full black OSD screen. The following adjustment is best carried in semi-darkness: - Adjust the **SCREEN** potentiometer (LL008) so that the retrace lines are just visible. - Now carefully adjust the **SCREEN** potentiometer until the retrace lines just become invisible. - Press any RCU key to leave the G2 alignment. Note: If the G2 value is set too low, the chassis will display error code 36 (tube does not get warm in time). - Sélectionner et valider le réglage "G2 Alignment" dans le menu Vidéo de Service Mode: l'écran devient totalement noir. En obscurité: - Régler le potentiomètre "**SCREEN**" (LL008) pour apercevoir le retour des lignes. - Régler ensuite le potentiomètre "**SCREEN**" pour rendre juste invisible les lignes de retour. - Appuyer sur une des touches de la télécommande utilisateur pour sortir du mode G2 Alignment. Note : En cas de réglage G2 trop faible le chassis passe en code panne 36 (absence de l'information tube chaud. - Wählen Sie im Service-Mode im Menü VIDEO die Funktion "G2 Alignment" an: der Bildschirm wird schwarz. Die folgenden Einstellungen sollten in einem abgedunkelten Raum vorgenommen werden. - Stellen Sie den Einsteller **SCREEN** (am DST LL008) so ein, dass Rücklaufstreifen sichtbar werden. - Stellen Sie den Einsteller SCREEN so ein, dass die Rücklaufstreifen gerade unsichtbar werden. - Drücken Sie irgendeine Taste auf der Fernbedienung um den G2-Abgleich zu verlassen. Achtung: Wenn die Schirmgitter- (G2-) Einstellung zu niedrig ist, kann der Fehlercode 36 (Bildrohr nicht rechtzeitig aufgeheizt) angezeigt werden. Selezionare e abilitare"G2 Alignment" interno al menu VIDEO del Service Mode: Verrà visualizzato uno schermo nero. In condizione con ambiente scuro. Regolare il potenziometro **SCREEN** (LL08) per rendere visibili le ritracce sullo schermo Regolare il potenziometro **SCREEN** per eliminare le ritracce sullo schermo Premere un tasto del tecomando per abbandonare G2 alignment. NOTA: se la regolazione della tensione G2 è tropppo bassa il telaio visualizzerà il codice 36 (il tubo non raggiunge la temperatura nel tempo richiesto) - Seleccionar y validar la línea del "ajuste G2" en el menú VIDEO del Modo Servicio : La pantalla se pondrá oscura y el OSD pasará a color negro. Cuando esté oscura: - Ajustar el potenciómetro **SCREEN** (LL008) hasta hacer visibles las líneas de retrazado. - Ajustar el potenciómetro **SCREEN** justo, hasta hacer invisibles las líneas de retrazado. - Pulsar cualquier tecla del telemando para salir del ajuste de G2. Nota: Si el valor del ajuste de G2 es muy bajo, el chasis puede indicar el código de error 36 (TRC no se calienta en el tiempo establecido)
FOCUS	FOCUS	Standard TV - Settings : ☼+◑+◑=50% TV to AV1 Test pattern
Single Focus Tubes	FOCUS	Sharp picture
Dynamic Focus Tube	FOCUS	FOCUS Sharp picture
Focus adjustment for extra flat tube (XF) Réglage focus pour les tubes extra plats (XF) Fokus-einstellung be extra flat-bildröhren (XF) Regolazione fuoco per tubi extra flat (XF) Ajuste del foco para t.r.c. extraplano (XF)	FOCUS DFB PL501	1 - Using "FOCUS" adjust the focus of the centre section of the top horizontal line i.e. finest line without "flare". 2 - Using PL501 adjust the focus of the vertical line at the edge of the screen i.e. finest line without "flare". 1 - Régler le potentiomètre "FOCUS" pour obtenir le centre de la ligne horizontale en haut d'écran la plus fine possible. 2 - Régler PL501 pour obtenir la ligne verticale au bord la plus fine possible. 1 - Stellen Sie mit "FOCUS" die Schärfe in der Mitte der obersten horizontalen Zeile auf Maximum (ohne Nachzieheffekte) ein. 2 - Stellen Sie mit PL501 die Schärfe der Vertikalen Linien in den Bildrändern auf Maximum (ohne Nachzieheffekte) ein. 1 - Regolare la focalizzazione centrale della linea orizzontale nella parte alta dello schermo con "FOCUS". Il più sottile possibile senza "flare". 2 - Regolare PL501 per avere le righe verticali ai lati dello schermo il più sottili possibile senza "flare". 1 - Ajustar el enfoque con "FOCUS" para obtener la parte central de línea horizontal de la parte superior de la pantalla lo más fina posible. 2 - Ajustar PL501 para obtener las líneas verticales lo más finas posible y sin rebordes.

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PROCEDIMIENTO DE ALINEACION







TUBE

Return

Closes the sub-menu and returns to the "Main Service Menu"

Retourne au menu principal.

Schließt das Untermenü, und das Haupt-Menü des Service-Modus erscheint.

Chiude il sottomenu e fa apparire il menu principale Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press </>: remote control.

Tube type

After replacing the NVM, the correct tube type number must be entered (6 characters). Once entered, the tubes geometry and video default values are immediately activated. . Variable geometry and video parameters are written to the NVM when the "STORE" line is selected. See below the tube type number list.

Definit le tube exact après changement de NVM.
Les nouvelles valeurs de tubes (avec video et géometrie) sont actives de suite.
Les paramètres de vidéo et de géométrie sont chargés en NVM lorsque STORE est sélectionné. Voir liste ci-dessous.

Nach dem Tausch des NVM (EEPROM) muB der richtige Bildrohrtyp eingegeben werden. Es werden dann sofort die entsprechenden Geometrie-und Video-Defaultwerte aktiviert. Variable Geometrie-und Videowerte müssen mit "STORE" in das NVM geschrieben werden. Liste der Röhren: siehe unten.

Definire il tubo appropriato dopo aver cambiato la NVM; I valori per il nuovo tipo di tubo (con video e geometria) sono immediatamente attivi. I parametri per video e geometria variabili vengono immessi nella NVM quando viene selezionata la funzione Store. Si veda la lista dei tubi riportata sotto.

Definir el tubo correcto después de haber cambiado el NVM.Los nuevos valores de tipo de tubo (con la vídeo y la geometría por defecto) se activan inmediatamente. Los parámetros variables de geometría y vídeo se graban en el NVM al seleccionar la función Store. Vea más abajo la lista de tubos.

TUBE NAME	LIST	DESCRIPTION
A68EGD038X322	A68EGD	4/3 29"SF (1)
A68EJZ011X121	A68EJZ	4/3 29"XFT (1)
W66EGV023X122	W66EGV	16/9 28"SF (1)
W66EJY011X122	W66EJY	16/9 28"XF (1)
W76EGV023X122	W76EGV	16/9 32"SF (1)
W76EJY011X122	W76EJY	16/9 32"XF (1)
W76LTL350X97(U)	W76LTL	16/9 32"XF TOSH. (2)
W86LQQ350X97(U)	W86LQQ	16/9 36"XF TOSH. (2)

(1) : Invar vector gun, BSVM
(2) : Dynamic Focus, BSVM

→ After setting → Store (+) ☑

CHASSIS SETUP

Return

Closes the sub-menu and returns to the "Main Service Menu"

Retourne au menu principal.

Schließt das Untermenü, und das Haupt-Menü des Service-Modus erscheint.

Chiude il sottomenu e fa apparire il menu principale Service Mode.

Cierra el submenú. El menú Field Service Mode aparece.

Press </>: remote control.

Clear Prog.

Clears all programms stored in memory and resets all Picture and Sound settings to the factory defaults. The AUTO INSTALL (out of factory) mode can be initialised by a long press (>2.5s.) of the selection button.

Efface tous les programmes mémorisés.

Valeurs SON et IMAGES: valeurs usines. Fonction valide par une longue pression (>2.5s.) sur la touche de sélection </>.

Löscht alle Programmplätze und setzt alle Bild- und Toneinstellungen auf Fabrikwerte zurück. Der AUTO-INSTALL-Modus kann durch einen langen Knopfdruck (>2,5s) initialisiert werden.

Clear Prog.
Cancella tutti i programmi in memoria e regola i Valori analogici SUONO IMMAGINE: ai livelli di fabbrica.Riportare la TV al modo Selezione: pressione prolungata: 2,5 sec. su il pulsante </>.

Programa de borrado.
Borra todos los programas almacenados en la memoria.Valores analógicos de IMAGEN y SONIDO: valores de fábrica.Regreso a la TV para "salir del modo fábrica".Selección: Presión larga igual a 2,5 s.

Std.Sound Preset

Sets the default value for the Standard Sound Preset.

Initialise les valeurs par défaut du son.

Setzt die Ton-Einstellungen auf Default-Werte.

Regolare i valori di defoult per le Preregolazioni Suono Standard.

Ajusta el valor por defecto para el Preajuste del Sonido Standard.

Factory adjusted
Reserve au reglage usine
Reserviert für Fabrikeinstellungen
Riservato alla regolazione di fabbrica
Ajuste reservado fábricas

Kbd. Config.

Specifies the type of the local keyboard. The local keyboard can be mounted in different locations and orientations (Horizontal or Vertical type) in the chassis.

Spécifie le type de clavier monté sur un chassis selon son emplacement et son orientation (type Horizontal ou Vertical)

"Bestimmt den Typ des Nahbedienteils." "Das Nahbedienteil kann an unterschiedlichen Stellen in verschiedenen Ausrichtungen eingebaut werden."

Specificare il tipo della tastiera comandi La tastiera comandi può essere montata in una locazione differente in funzione del telaio

Especifica el tipo de teclado local. El teclado local puede ser montado en diferentes posición y orientación en el chasis

Default value : Horizontal version
Factory adjusted

→ After setting → Store (+) ☑

CHASSIS SETUP

Bus Quiet

In "Bus Quiet", the NVM can be read, modified and reprogrammed by means of a NVM Programmer.
To access "Bus Quiet" : Long press ">".
The TV should remain in "Bus Quiet" mode until either Exit, Left, Right, Up,Down or Standby keys on the RCU or local keyboard are pressed; at which point the TV should carry out a warmstart in order to prevent differences between the NVM and RAM contents.
After returning from Bus Quiet, the software checks the NVM content.
If it is not valid, the software perform a new default writing of the NVM content.

En mode bus quiet la NVM peut être lue, modifiée et reprogrammée.
Accès au mode Bus quiet :
Longue pression ">".
Utiliser l'une des touches Exit, Gauche, Droite Haut, Bas, standby ou une des touches du clavier pour sortir le téléviseur du mode bus quiet.
A partir de ce point de sortie le démarrage du téléviseur s'effectue à chaud pour éviter toute différence des contenus RAM et NVM.
En sortie de mode bus quiet, le logiciel contrôle le contenu de la NVM.
S'il n'est pas correct le logiciel exécute une nouvelle écriture par défaut de celle-ci.

Im "Bus Quiet"-Modus kann der Inhalt des NVM mittels eines externen NVM-Programmiergerätes ausgelesen, geändert oder neu programmiert werden. "Bus Quiet" wird durch einem längeren Druck auf ">" aktiviert. Das Gerät bleibt solange im "Bus Quiet" - Mode, bis durch Druck auf die EXIT-, LINKS-, RECHTS-, HOCH-, RUNTER- oder STANDBY-Taste (am Gerät oder auf der Fernbedienung) ein Warmstart des Gerätes veranlaßt wird, um unterschiedliche Daten in RAM und NVM zu vermeiden. Es folgt ein Software-Check des NVM-Inhaltes.
Sollte dieser nicht gültig sein, wird der Inhalt mit Default-Werten überschrieben.

In Modo Bus Quiet, la memoria NVM può essere letta, modificata o riprogrammata.
Per accedere al modo Bus Quiet premere a lungo il tasto ">".
Il TV rimane in modo Bus Quiet fino a che vengono premuti i tasti Exit, o Destro Sinistro, Su o Giù o Standby dal telecomando o dalla tastiera locale; a questo punto il TV riparte per evitare interferenze tra i contenuti della memoria NVM e della RAM.
All'uscita dal modo Bus Quiet, il software controlla il contenuto della memoria NVM. Se tale contenuto non è valido, il software provvede a una nuova programmazione della NVM con l'inserimento dei dati di default.

En bus quieto, la NVM puede ser leída, modificada y reprogramada.
Acceso a bus quieto : Larga presión en ">"
El TV permanecerá en bus quieto hasta que se pulse cualquiera de las teclas siguientes: Exit, "<", "^", "V", ">"o Standby del telemando o del teclado.
En este momento el TV arrancará para evitar cualquier diferencia entre los contenidos de la RAM y NVM.
Al salir del modo bus quieto, el software comprueba el contenido de la NVM.
Si no coincide, el software ejecuta la escritura de los datos en la NVM.

☑ Bus quiet enable ☐ Bus quiet disable

→ After setting → Store (+) ☑

FEATURE SETUP

Picture Rotation

Enables the "Earth Field Correction" function (EFC) on ICC21 16/9 and some large screen 4/3 by adding a special bargraph to the picture menu (user menus).
It is necessary to validate this function if the EFC components are fitted.

Valide la fonction "correction de champ magnétique terrestre" (EFC) sur les chassis ICC21 16/9 et les appareils 4/3 grand écran par addition d'un bargraphe spécifique dans le menu "réglages personnels" (menu utilisateur). Cette fonction doit être validée lorsque les composants "EFC"sont insérés.

Freigabe der Erdfeldkorrektur (EFC) bei ICC21 16/9 und einigen 4/3 Geräten. Im Menü "Bild" wird ein zusätzlicher Anzeigebalken eingeblendet Nach dem Einbau des EFC-Moduls ist diese Funktiozu aktivieren.

Attiva la funzione "Correzione del campo magnetico terrestre" (EFC) sul telaio ICC21 16/9 e alcuni grandi schermi 4/3 , aggiungendo una speciale barra grafica nei menu di "Menu Principale".
Se il circuito di correzione è montato, è necessario convalidare questa funzione.

Valida la función "corrección del campo magnético terrestre" (EFC) en los chasis ICC21 and some large screen 4/3 añadiendo una barra gráfica en el menú "Ajustes personales". Es necesario validar ésta función si el circuito de corrección EFC está montado.

☑ Rotation bargraph available menu, EFC function active.
☐ Rotation bargraph suppressed from personal settings, EFC circuit disactivated

WSS

Automatic detection of DOLBY surround sound and 16/9 format pictures via Teletext line number 23 is valid on all programmes.

Détection automatique du son surround DOLBY et du format 16/9 via la ligne 23 du Teletxte. Valide pour tous programmes.

WSS (nur bei 16:9 oder Dolby)
Auswertung der Zeile 23 zur automatischen Format-und Dolbyumschaltung.

Identificazione "auto-Dolby" e "format 16/9" via televideo alla riga 23.La selezione di WSS Processing vale per tutti i programmi.

Detección "auto-surround" y "format" a través de la línea 23 de Teletext.La selección del procesamiento WSS es válida para todos los programas.

☑ Detection enable ☐ Detection disable

Blue Screen

Covers the picture with a full-screen blue OSD background when no signal is detected at the main tuner input.There will be no blue screen with AV inputs.

Affiche un fond bleu lorsque aucun signal n'est détecté en entrée du tuner principal.
Il n'y a pas de fond bleu en entrée AV.

Anzeige eines blauen Bildschirms wenn kein Sendersignal am Haupt-Tuner anliegt. Bei fehlendem Signal an den den AV-Eingängen wird der Bildschirm nicht blau.

Schermo con un sottofondo di colore blu quando non viene rilevato nessun segnale all'ingresso tuner. Non ci sarà schermo blu quando è presente un segnale agli ingressi AV.

En el fondo del OSD cubre la pantalla completa de color azul cuando no se detecta señal en la entrada del sintonizador principal. No habrá pantalla azul con entradas AV.

☑ Detection enable ☐ Detection disable

→ After setting → Store (+) ☑

FEATURE SETUP

Curtains Effect

Enables the "Curtains Effect" function in the user preferences menus.
- Default value: ON (out of factory).

Valide la fonction "Effet de rideau" dans le menu des préférences utilisateurs.
- Valeur par défaut : ON (sortie usine).

Aktiviert die Funktion "Jalousie-Effekt" im Benutzer-Menü "Präferenzen".
-Werkseinstellung: ON

Abilita "Effetto Tendina" funzione disponibile nel menu di preferenze.
Valore di Defoult: ON (all'uscita dalla fabbrica)

Activa la función "Efecto Cortina" en los menús de preferencia del usuario.
Valor por defecto: ON (ajuste de fábrica)

☑ Curtains Effect function active.

☐ Curtains Effect function disactivated

High end CRT

Selects the used CRT board type.
Valide le type de CRT équipant le TV.
Wählen Sie die verwendente Bildrohr-Leiterplatte (CRT-Board)
Selezionare il tipo di piastra CRT usata.
Selecciona el tipo de placa TRC utilizada.

☑
High end CRT board type selected.
Validation de CRT de type haut de gamme.
High End CRT-Board ausgewählt.
Tipo di piastra High end selezionata
Tipo de placa TRC seleccionado, high end
CRT BS 211XX, CRT BS 213XX...

☐
Standard CRT board type selected.
Validation de CRT de type standard.
Standard CRT-Board ausgewählt
Piastra CRT Standard Selezionata.
Tipo de placa TRC seleccionado, standard
CRT BS 210XX, Rearprojector...
Factory adjusted

Welcome Screen

Determines whether or not a Welcome Screen is shown during the Installation Mode. When this checkbox is unchecked the "Contacts" user Menu will be disabled.

Valide l'écran de bienvenue durant le mode Installation.
Lorsque la case "Welcome Screen" n'est pas validée le menu utilisateur "Contacts" n'est pas valide.

Aktiviert den "Willkommen"-Bildschirm bei de Installation. Wenn diese Checkbox nicht markiert ist, wird das Benutzer-Menü "Contacts" nicht angezeigt.

Determina se lo schermo di Benvenuto viene mostrato durante il modo installazione.
Se la casella "Contacts" non viene selezionata il menu utilizzatore sarà disabilitato

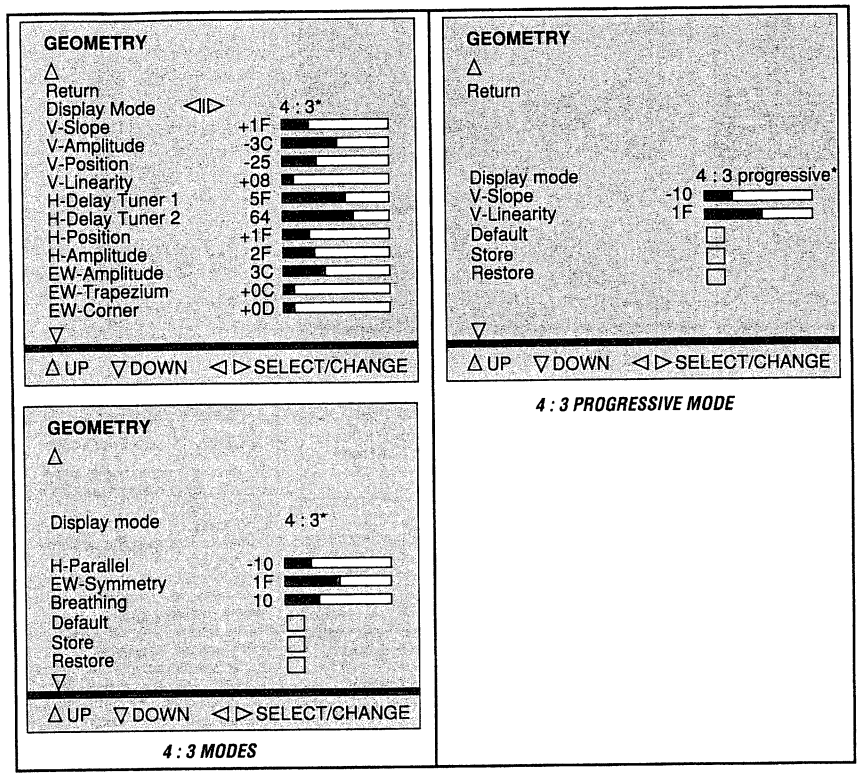
Determina si durante el modo instalación se muestra o no la pantalla de bienvenida.
Cuando no está señalada la casilla el menú del usuario "Contactos" estará desactivado.

☑ Welcome Screen enable
☐ Welcome Screen disable

→ After setting → Store (+) ☑

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PRO

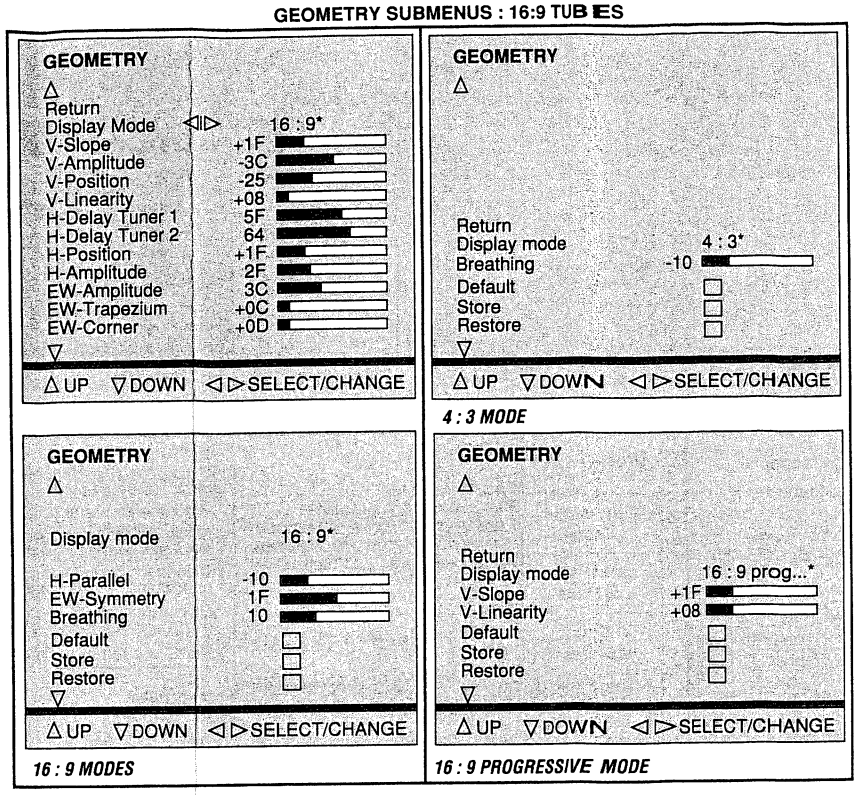
GEOMETRY SUBMENUS : 4:3 TUBES



4 : 3 PROGRESSIVE MODE

4 : 3 MODES

GEOMETRY SUBMENUS : 16:9 TUBES



4 : 3 MODE

16 : 9 MODES

16 : 9 PROGRESSIVE MODE

GEOMETRY

Display Mode

Complete geometry adjustment is done according to chassis tube format :
4/3 zoom 0 mode for **4/3 tubes**, **16/9 zoom 0** mode for **16/9 tubes.**
In all other modes it is only necessary to adjust some few registers.
The actual format mode has to be displayed in the Geometry Service mode.
It has to be possible to change the format during the geometry alignment without leaving the Service mode.

The available display modes depend on the picture tube format.
4/3 tube : 2 modes 4/3 and progressive
16/9 tube : 3 modes 16/9 standard, 4/3 centered,progressive

The menu shows only the registers which have to be aligned for the actual picture format currently displayed.

Les réglages complets de géométrie sont faits dans le format du tube équipant l'appareil.
Mode **4/3 zoom 0** pour les tubes **4/3**, **16/9 zoom 0** pour les tubes **16/9**.
Dans les autres modes seuls quelques registres nécessitent un réglage.
Le format de réglage doit être affiché dans le menu de géométrie du mode service.
Il est possible de changer le format sans quitter le mode service.

Différents types d'affichage disponibles :

tube 4/3 : 2 modes 4/3 et progressif
tube 16/9 : 3 modes 16/9 standard, 4/3 centré, progressif

Le menu correspondant affiche seulement les registres spécifiques du format sélectionné à régler.

Ein vollständiger Geometrie-Abgleich ist bei **4/3-Röhren** nur in der Zoomstufe **4/3 Zoom 0** und bei **16/9-Röhren** nur in der Zoomstufe **16/9 Zoom 0** notwendig.
In allen anderen Zoomstufen sind eine geringere Anzahl von Einstellungen vorzunehmen.
Während des Geometrie-Abgleiches wird zur Kontrolle ständig das aktuelle Bildformat eingeblendet. Während des Geometrie-Abgleiches ist es möglich, das Bildformat zu ändern, ohne den Service Mode zu verlassen.

Die verfügbaren Bildformate sind abhängig vom Bildrohr-Format.
4/3-Röhre : 2 Bildformate 4/3 und progressive
16/9-Röhre : 3 Bildformate 16/9 Standard, 4/3 centered und progressive

Das Abgleich-Menü zeigt immer nur die Funktionen an, die im aktuellen Bildformat eingestellt werden müssen.

GEOMETRY

Display Mode

La disponibilita dei modi display dipende dal formato del tubo:
tubo 4/3 : 2 modi 4/3, progressif
tubo 16/9 : 3 modi 16/9 standard, 4/3 centré progressive
Il corrispondente menu mostra solo i registri di regolazione.
Le regolazioni complete di geometria vengono fare in base al tubo:
per **tubi 4/3** - 4/3 zoom 0
per **tubi 16/9** - 16/9 zoom 0

In tutti gli altri modi è necessario regolare solo alcuni registri.
Il formato di regolazione deve essere selezionato nel menu di geometria nel modo service.
E' possibile canbiare formato senza uscire da service mode

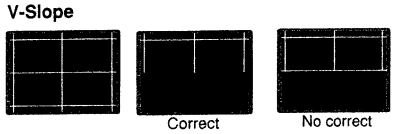
Los ajustes completos de geometría se harán de acuerdo al formato del tubo montado:
modo 4/3 para tubos de **4/3 zoom 0**,
modo 16/9 zoom 0 para tubos **de 16/9**.
En todos los otros modos, sólo será necesario ajustar unos pocos registros.
El modo de formato actual debe ser accedido desde el Modo Servicio.
Es posible cambiar el formato sin salir del Modo Servicio.

Los formatos que se pueden visualizar, dependen del tipo de tubo.
Tubos de 4/3 : 2 modos, 4/3 y progressive
Tubos de 16/9: 3 modos, 16/9 estándar, 4/3 centered y progressive.
El menú correspondiente mostrará sólo los ajustes a efectuar.

V-Slope

- Apply a test pattern signal to the TV with a single horizontal and vertical line on the screen.
- Select the "**VS**" line of the menu. The bottom half of the screen will go black.
- Adjust VS until the centre line of the pattern is just invisible.
- Leave the line "**V_Slope**".
- Switch the test pattern signal to the crosshatch geometry pattern.
- Perform the geometry adjustments described below.

V-Slope



GEOMETRY

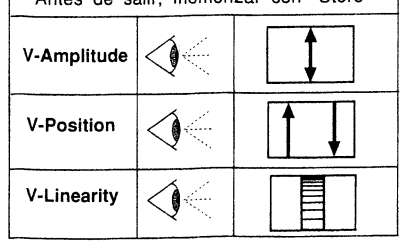
V-Slope

- Appliquer une mire de barres avec seulement une ligne blanche horizontale en milieu de l'écran.
- Sélectionner la ligne "**V-Slope**". La moitié basse de l'écran devient noire.
- Aligner "**V-Slope**" pour que la ligne médiane soit à peine non visible.
- Commuter la mire en mode de réglage de géométrie (quadrillage).
- Effectuer les reglages de geometrie.

- Speisen Sie ein Testbild mit einem horizontalen Strich in der Bildmitte ein.
- Wählen Sie im Menü die Funktion "V-Slope" an.
  Die untere Bildhälfte wird dunkel.
- Stellen Sie "V-Slope" so ein, daß die Mittellinie fast verschwindet.
- Verlassen Sie die Funktion "V-Slope".
- Speisen Sie ein Gittertestbild ein.
- Nehmen Sie die Geometrieeinstellungen wie nebenstehend beschrieben vor.

- Applicare un monoscopio con un'unica linea bianca orizzontale al centro dello schermo
- Selezionare la riga "**V slope**" del menu. La parte bassa dello schermo viene oscurata.
- Allineare la "Vertical Slope" in modo che la linea centrale sia appena visibile
- Abbandonare la riga "**V slope**".
- Posizionare il monoscopio
- Effettuare le regolazioni di geometria descritte in precedenza
- Memorizzare.

- Aplique una carta de ajuste con sólo una línea blanca horizontal y una vertical en el centro de la pantalla.
- Seleccionar en el menú, la línea "**V-Slope**". La mitad inferior de la pantalla se pondrá oscura.
- Ajuste "**V-Slope**" justo hasta que la línea horizontal sea invisible.
- Cambiar la carta de ajuste a "cuadrícula" y efectuar los ajustes de geometria descritos a continuación
- Antes de salir, memorizar con "Store"



GEOMETRY

H-Delay Tuner 1 / H-Delay Tuner 2
Horizontal-Delay

Increase/decrease value to center the image inside the displayed curtains.
Adjust H-Delay before "H-Position"
- A second H-Delay (H-Delay Tuner 2) is needed in case a second tuner is fitted.If the second tuner is missing H-Delay Tuner 2 is not displayed.
- The main picture channel must be adjusted with input from the the main tuner; the secondary picture channel must be adjusted with input from the secondary tuner.

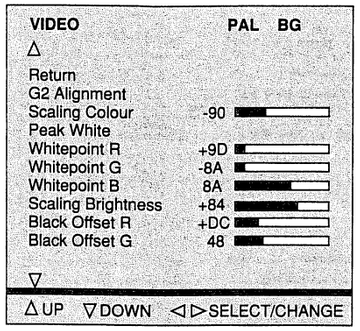
Augmenter/diminuer la valeur de H-Delay pour centrer l'image à l'intérieur des "rideaux".
Ajuster H-Delay avant "H-Position"
-Un second réglage (H-Delay Tuner2) est nécessaire si un secont tuner est monté.
Si le secont tuner est absent la ligne H-Delay Tuner 2 n'est pas affichée.
- Le registre principal doit être ajusté avec une image issue du tuner prncipal; le registre secondaire avec une image issue du tuner secondaire.

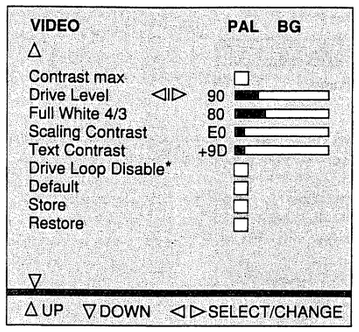
Zentrieren Sie das Bild horizontal zwischen die dunkelgetasteten senkrechten Balken.
Gleichen Sie H-Delay vor "H-Position" ab.
- Ein zweiter H-Delay (H-Delay Tuner 2) ist notwendig falls ein zweiter Tuner eingebaut ist.
Ist kein zweiter Tuner eingebaut, wird H-Delay Tuner 2 nicht angezeigt.
-das Hauptbild muss mit einem Signal vom Haupt- Tuner eingestellt werden, das Neben (Sekundär bild muss mit einem Signal vom zweiten Tuner abgeglichen werden.

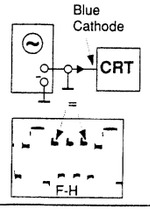
Incrementare / Decrementare il valore per centrare l'immagine.
Regolare H-Delay prima "H-Position".
- A second H-Delay (H-Delay Tuner 2) is needed in case a second tuner is fitted.If the second tuner is missing H-Delay Tuner 2 is not displayed.
- The main picture channel must be adjusted with input from the the main tuner; the secondary picture channel must be adjusted with input from the secondary tuner.

Press </>: remote control.

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PROCEDIMIENTO DE ALINEACION





VIDEO	PAL
Return	Closes the sub-menu and returns to the "Main Service Menu" Retourne au menu principal. Schließt das Untermenü, und das Haupt-Menü des Service-Modes erscheint. Chiude il sottomenu e fa apparire il menu principale Service Mode. Cierra el submenú. El menú Field Service Mode aparece. Press </>: remote control.
G2 Alignment	Display a full screen black OSD Adjust G2 with SCREEN potentiometer: see adjust table Ecran totalement noir. Régler G2 avec le potentiomètre SCREEN : voir tableau des réglages.(p.12). Das Bild wird dunkelgetastet Gleichen Sie G2 mit dem SCREEN-Potentiometer wie auf seite 12. beschrieben ab. Visualizzare uno schermo nero e regolar il potenziomero G2 riferendos alla tabella regolazione (p.12) Pantalla totalmente oscura sin OSD. Ajustar la G2 con el potenciómetro SCREEN: ver tabla (p.12).
Scaling Colour*	☼+◑+◑ = standard PAL, SECAM, AV1_RGB, AUX (TAK, DVD and DIGITAL) 75% Colour bar test pattern via RF. 

Note :
* Specific rear projector

Color standard or RGB is autodetected and displayed opposite the displayed opposite the menu title.

VIDEO	PAL
Peak-White**	☼+◑+◑ = standard Peak white test pattern white =100% RF-BG; RF-L; AV1 RGB AUX (TAK, DVD, Digital Mode) Colourimeter

Tube Type	[Nits]	Tube Type	[Nits]
A66EHJ	380	W66EGV	480
A68EGD	400	W66EJY	450
A68EJV	-	W66EJY	-
A68EJZ	-	W76EGV	380
A80EJA	350	W76EJY	-

Whitepoint R*	☼+◑+◑ = standard Grey scale test pattern white =50% Amplitude: 350mVBW RF-PAL RF-SECAM AV1- RGB AUX (TAK,DVD Digital).	
Whitepoint G*		
Whitepoint B*		grey
Scalling Brightness	☼+◑+◑ = standard Grey scale test pattern white =100%	black
Black Offset R	Factory adjusted Réservé au réglage usine Reserviert für Fabrikeinstellungen Riservato alla regolazione di fabbrica Ajuste reservado fábricas	
Black Offset G		

Contrast max

Set (temporary) the user contrast bargraph to max. When "Contrast max." is deselected the user contrast bargraph set back to the previous value.

Met (temporairement) le baragraphe du réglage de contraste utilisateur au maximum.
Lorsque "Contrast max." is déselectionné Le bragraphe revient à sa valeur initiale.

Setzt (temporär) den User-Kontrast auf Max.Nach dem Abschalten von 'Contrast max' wird auf der Bar-Graph auf vorherigen Wert zurückgesetzt

Regolare (momentaneamente) la barragrafica del contrasto al massimo.Quando "Contrasto massimo" viene disinserito la barra grafica utilizzatore viene regolata al volume precedente.

Ajusta (temporalmente) la barra de contraste del usuario al máximo. Cuando no esté seleccionado "Contraste Máximo" la barra de contraste del usuario vuelve a su valor anterior.

☑ Contrast max. enable
☐ Contrast max. disable

VIDEO	PAL
Drive Level	Factory adjusted Réservé au réglage usine Reserviert für Fabrikeinstellungen Riservato alla regolazione di fabbrica Ajuste reservado fábricas
Full White 4/3	
Scalling Contrast	
Text Contrast	☼+◑+◑ = standard

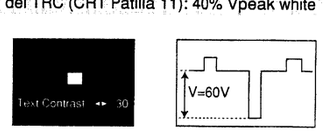
Adjust Text contrast for V=60V at pin 11 (Blue) of the CRT : 40% V peak white

Ajuster Text Contrast pour obtenir un niveau de sortie V=60V sur la cathode Bleue du tube (point 11 de la CRT): 40% V peak white.

Stellen Sie mit Text Contrast V=60V an der Blau-Kathode (Pin 11) der Bildröhre ein: 40% Vpeak white

Regolare il guadagno contrasto televideo per ottenere al catodo del blu un livello pari a V=60V (CRT pin 11): 40% Vpeak white.

Ajuste Text Gain para dejar V=60V en azul del TRC (CRT Patilla 11): 40% Vpeak white



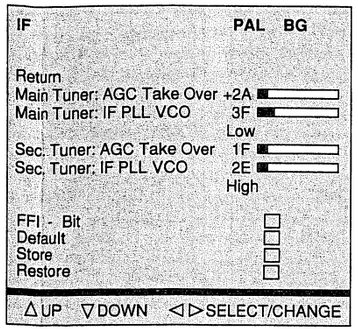
Drive loop Disable	Specific Rear Projector sets

→ After setting → Store (+) ☑

Note :

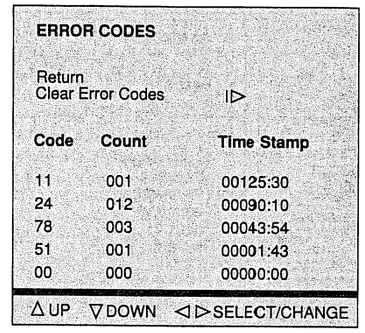
* Adjust separate for PAL RF / SECAM RF, RGB, AUX (TAK, DVD, Digital).

** After PEAK white adjustment control white points setting.
Repeat the adjustments IF necessary.



IF	
Return	Closes the sub-menu and returns to the "Main Service Menu" Retourne au menu principal. Schließt das Untermenü, und das Haupt-Menü des Servic e-Modes erscheint. Chiude il sottomenu e fa apparire il menu principale Service Mode. Cierra el submenú. El menú Field Service Mode aparece. Press </>: remote control.
Main Tuner AGC Take Over	1mV : antenna input of the Main tuner - Minimum noise- - Minimum de bruit - Minimum Rauschen - Rumore minimo - Minimo ruido
Main tuner IF PLL VCO	Adjust IF PLL VCO for "OK" indicating. Adjust for standard L' and others.
Sec. Tuner AGC Take Over	1mV : antenna input of the secondary tuner - Minimum noise- - Minimum de bruit - Minimum Rauschen - Rumore minimo - Minimo ruido
Sec. tuner IF PLL VCO	Adjust IF PLL VCO for "OK" indicating. Adjust for standard L' and others.
FFI - Bit	Fast Filter (IF / PLL) Filtre rapide (FI / PLL) Schnelles filter (ZF / PLL) Filtro /rapido (IF / PLL) ☑ Asia ☐ Europ

→ After setting → Store (+) ☑



ERROR CODE

Clear Error Codes To clear all error codes stored in the NVM. Action: Long press (> 2.5sec.).
Press </>/OK: remote control.

CODE LED Error Codes

1- The last five error codes are stored and displayed with a time stamp from the runtime counter. Each error code in this list has an error counter that counts further occurences of a particular error.
2- If an error occurs that is already in the list the time stamp is updated and the error counter is incremented If the error counter reaches the value 255 it is not incremented anymore.
3- The errors are displayed with the most recent error on top of the list. The others follow with descending time stamps.
Displaying Error Codes with LED:
1- In addition to storing an error code it must also be displayed with the TV's Standby LED.
Only the last error that occured is displayed.
2- Decimal error codes from 11 to 99 (with second digit not being 0) are signalled.
3- The error code is displayed as two separate digits separated by a suitable pause, this is repeated until the either the TV fixes the fault or the TV is repaired.
For example Error-code : 23 will be displayed thus :
2 flashes and a short pause
3 flashes and a long pause
.....
List of Errors Codes : see table

1- Mémorise les cinq derniers codes erreurs. Le cumul du temps de fonctionnement entre le démarrage initial du chassis en usine et le moment où s'est produit l'erreur est indiquée en colonne "Time stamp".Chacun de ces codes est en outre affecté d'un compteur signalant sa répétition.
2. Si une erreur qui est déjà dans la liste survient de nouveau le temps cumulé (Time stamp) est mis à jour et le compteur d'erreur est incrémenté.
Le compteur d'erreurs n'est pas incrémenté au delà de 255.
3- Les erreurs les plus récentes sont affichées en tête de liste. Les autres suivent en descendant.
Affichage des Codes Erreurs par LED:
1- Les Codes erreur sont signalés par le clignotement de la LED Standby du TV .Seulement la dernière erreur survenue est affichée.
2- Les codes Erreurs décimaux vont de 11 à 99. (le second digit n'est jamais égal à 0) .
3- Le code Erreurs est signalé par deux digits selon une séquence spécifique
Exemple :
Code Erreurs : 23 affiché
2 flashes, courte pause
3 flashes : longue pause
.....
Voir ci-après la liste des codes erreurs

1. Es werden die letzten 5 Fehlercodes mit der Laufzeit angezeigt. Jeder Fehlercode dieser Liste hat einen eigenen Zähler, der das erneute Auftreten des selben Fehlers mitzählt..
2. Tritt ein Fehler auf, der schon in der Liste steht, wird nur die Laufzeitanzeige aktualisiert und der Fehlerzähler (bis auf 255 maximal) inkrementiert.
3. Der zuletzte aufgetretene Fehler steht an erster Stelle. Die vorhergegangenen Fehler werden nach abnehmender Laufzeit gelistet.
Anzeige des Fehlercodes über die Standby-LED
1- Der Fehlercode wird nach dem Auftreten des Fehlers zu-sätzlich über die Standby-LED des TV-Gerätes durch Blinken angezeigt.
2- Es können die Fehlercodes 11 bis 99 (ohne diejenigen , die eine Null als zweite Stelle haben) dargestellt werden.
3- Die beiden Dezimalstellen des Code werden durch Blinken, getrennt von einer Pause angezeigt. Dies wird wiederholt, bis der Fehler nicht mehr auftritt oder das Gerät repariert wird.
Beispiel der Anzeige für den Fehlercode 23:
Zweimaliges Blinken der LED, kurze Pause
Dreimaliges Blinken der LED, lange Pause.
Aufstellung der Fehlercodes: siehe Tabelle

ERROR CODE

CODE LED Error Codes

1- Gli ultimi cinque codici errore sono memorizzati e visualizzati attrverso il contatore della durata di esecuzione.
Ogni codice di errore in questa lista dispone di contatore di errore che aggiorna la durata di esecuzione.
2- Se si manifesta un errore già presente nella lista il tempo durata totale viene aggiornato e il contatore errore incrementato.
Se il contatore errore ha riaggiunto il valore di 255 non viene più incrementato.
3- L'errore più recente viene visualizzato in cima alla lista. Gli altri seguono nella lista.
Lampeggi LED: Trasmissione messaggi
1- Il codice errore memorizzato viene anche visualizzado dal diodo LED di standby del TV. Viene visualizzato solo l'ultimo errore che si è manifestato.
2- I codici errore vengono segnalati da numeri decimali da 11 a 99 (la seconda cifra del digit non è mai zero).
3- Il codice di errore viene visualizzato da due cifre separate da un intervallo di tempo è verrà ripetuto fino a quando il TV non sarà stato riparato.
Per esempio il codice di errore 23 visualizzerà:
2 flashes and a short pause
2 segnali luminosi con una pausa breve.
3 segnali luminosi con una pausa lunga.
.....
Per la lista dei codici di errore si veda la tabella:

1- Los últimos cinco códigos de error se almacenan y se visualizan durante un tiempo desde el contador. Cada código de error en esta lista tiene un contador de errores que contabiliza lo que ocurre más allá de un error determinado.
2- Si ocurre que un error ya está en esta lista el tiempo mostrado es actualizado y el contador de errores aumenta.
Si el contador de errores alcanza el valor 255 ya no puede aumentar más.
3- Los errores más recientes se muestran en la parte superior de la lista. Los otros continuan con tiempos descendentes.
Códigos de error visualizados con el LED:
1- Además de almacenar un código de error también puede ser visualizado con el LED de Standby del TV. Sólo se muestra el último error ocurrido.
2- Los códigos decimales de error desde el 11 al 99 (con segundo dígito distinto de 0) son visualizados.
3- El código de error es visualizado como dos dígitos separados por medio de una adecuada pausa; éste se repite hasta que el TV fija el defecto o es reparado
Por ejemplo el código de error 23 se verá como:
2 destellos y una pausa corta
3 destellos y una pausa larga
.....
Lista de Códigos de Error: ver tabla

GEOMETRY MODE ALIGNMENT
4/3 picture tube

A ICC21 4/3 set needs a geometry alignment only in the 4/3 Zoom 0 mode and additionally an alignment of V-slope, V-linearity in progressive mode. All other formats and zoom mode are calculated.

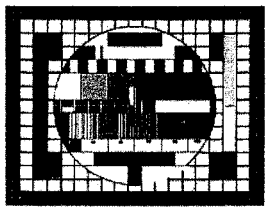
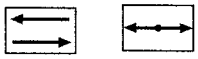
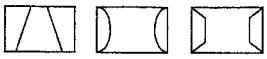
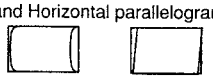
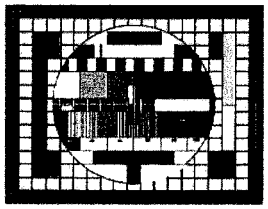
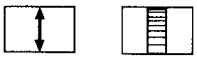
Un chassis ICC21 4/3 ne nécessite des réglages de géométrie que dans le mode 4/3 zoom 0 et additionnellement un réglage de V-slope, V-linearity en mode progressif. La géométrie des autres formats et zoom est calculée.

Beim Chassis ICC21ist ein Geometrie-Abgleich nur im Bildformat 4:3 Zoom 0 und zusätzlich der Abgleich von V-Slope und V-Linearity im Progressiv-Mode not-wendig. Alle anderen Formate und Zoomstufen werden berechnet.

I telai ICC21 4/3 richiedono la regolazione di geometria solo in formato 4/3 zoom 0 e un addizionale regolazione v-slope, v-linearity in progressive mode. tutti gli altri formati e modo zoom vengono calcolati.

Un TV ICC21 4/3 necesita ajuste de geometría sólo en el modo 4/3 Zoom 0 y adicionalmente un ajuste del V-slope y linealidad vertical en modo progresivo. Todos los demás formatos y modos de zoom se calculan automáticamente.

Signal : 4/3 test pattern

4 / 3 standard mode zoom 0		**Overscan V=107% , H=107%** 1- Adjust Vertical Slope. 2- Adjust Vertical position and Vertical amplitude 3- Adjust Vertical linearity 4- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude  5-Adjust EW Amplitude ,EW Shape and Trapezium, EW Corner,  6-Adjust EW Symmetry and Horizontal parallelogram 
4 / 3 progressive mode		**Overscan V=107% , H=107%** 1- Adjust Vertical Slope. 2- Adjust Vertical Amplitude and linearity 

16/9 picture tube

A ICC21 16/9 set needs a geometry alignment only in the 16/9 Zoom 0 mode and additionally an alignment of V-slope, V-linearity in progressive mode. All other formats and zoom mode are calculated.

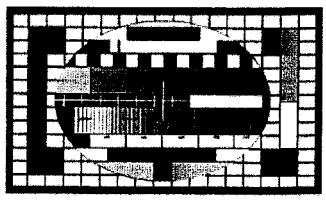
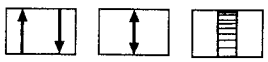
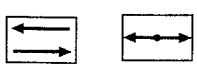
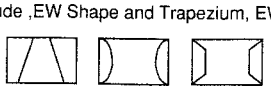
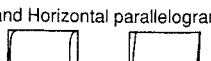
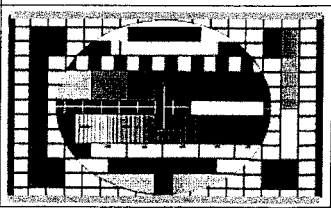
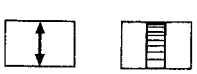
Un chassis ICC21 16/9 ne nécessite des réglages de géométrie que dans le mode 16/9 zoom 0 et additionnellement un réglage de V-slope, V-linearity en mode progressif. La géométrie des autres formats et zoom est calculée.

Beim Chassis ICC21 16:9 ist ein Geometrie-Abgleich nur im Bildformat 16:9 Zoom 0 und zusätzlich der Abgleich von V-Slope und V-Linearity im Progressiv-Mode not-wendig. Alle anderen Formate und Zoomstufen werden berechnet.

I telai ICC21 16/9 richiedono una regolazione di geometria solo nel formato 16/9 e modo zoom 0 e una addizionale regolazione v-slope e v-linearity in progressive mode. tutti gli altri formati e modo zoom vengono calcolati.

Un TV ICC21 16/9 necesita ajuste de geometría sólo en 16/9 modo Zoom 0 y adicionalmente un ajuste del V-slope y linealidad vertical en modo progresivo. Todos los demás formatos y modos de zoom se calculan automáticamente.

Signal : 4/3 test pattern

16 / 9 standard mode zoom 0		**Overscan V=107%, H =104%** 1- Adjust Vertical Slope. 2- Adjust Vertical position and Vertical amplitude 3- Adjust Vertical linearity  4- Adjust Horizontal Delay, Horizontal Position and Horizontal amplitude  5-Adjust EW Amplitude ,EW Shape and Trapezium, EW Corner,  6-Adjust EW Symmetry and Horizontal parallelogram 
16 /9 progressive mode		**Overscan V=107%, H =104%** 1- Adjust Vertical Slope. 2- Adjust Vertical Amplitude and linearity 

ERROR CODES

EN

11 I2C Bus_1 Data line held low
12 I2C Bus_1 Clock line held low
13 I2C Bus_2 Data line held low
14 I2C Bus_2 Clock line held low
15 I2C Bus_3 Data line held low
16 I2C Bus_3 Clock line held low
17 I2C Bus_4 Data line held low
18 I2C Bus_4 Clock line held low
21 Video: Master-HIP 1st TDA9321 doesn't answer anymore
22 Video: Power down detection (Vcc 1st HIP)
23 Video: Correct Xtal. ident. (1st HIP)
24 Video: Slave-HIP 2nd TDA9321 not acknowledged
25 Video: Power down detection (Vcc 2nd HIP)
26 Video: Correct Xtal. ident. (2nd HIP)
27 Video: Switch TEA6415C doesn't answer anymore (or 8V_5 not available).
28 PSI: TDA9178 doesn't answer anymore
29 PSI: Power down detection (Vcc PSI)
31 Deflection: TDA9330 (HOP) doesn't answer anymore
32 Deflection: Power down detection (Vcc HOP)
33 Deflection: Safety circuit has detected a problem.
34 Deflection: Horizontal flyback problem . NHF bit problem (only factory information)
35 Deflection: Oscillator is not locked. NRF bit problem (only factory information)
36 Deflection:Tube gets not warm in time.
37 Deflection: Vertical problem.
38 Deflection: reserved
39 Deflection: reserved
41 Audio: MSP 34xx/44xx doesn't answer anymore (or 5V_A not available)
42 Audio: Dolby DPL4519 doesn't answer anymore
43 Audio: AC3 Decoder MAS3528 doesn't answer anymore
44 Audio: Centre switch TEA6422 doesn't answer anymore
45 Audio: Wrong MSP is fitted
46 Audio: Connection problem to digital Dolby board
47 Audio: reserved
48 Audio: reserved
49 Audio: reserved
51 Upconverter: SDA9410 doesn't answer anymore
52 A/D: Master ADC 1st SDA9206 doesn't answer anymore
53 A/D: Slave ADC 2nd SDA9206 doesn't answer anymore
54 The NVM chip M24C64 doesn't answer anymore
55 The Portexpander TCE2ACU doesn't answer anymore
56 No ackn. reserved
57 No ackn. reserved
58 No ackn. reserved
59 No ackn. reserved
61 HW: Switch 5V (5V_V) not available
62 HW: Switch 5V (5V_V) and 8V (8V_V) not available
63 HW: Unexpected level on Power_fail line found (Mains to low)
64 HW:
65 HW:
66 HW:
67 HW:
68 HW:
69 HW:
reserved for hardware
71 DVB unit
72 DVB unit
73 DVB unit
74 DVB unit
75 DVB unit
reserved for DVB
76 reserved
77 reserved
78 DVD doesn't answer anymore
79 DVD : reserved for DVD
81 RP
82 RP
83 RP
84 RP
86 RP
87 RP
reserved for Rearprojector
88 reserved
89 reserved

FR

11 I2C Bus_1 data forcé au niveau bas
12 I2C Bus_1 clock forcé au niveau bas
13 I2C Bus_2 data forcé au niveau bas
14 I2C Bus_2 clock forcé au niveau bas
15 I2C Bus_3 data forcé au niveau bas
16 I2C Bus_3 clock forcé au niveau bas
17 I2C Bus_4 data forcé au niveau bas
18 I2C Bus_4 clock forcé au niveau bas
21 1èr Video: Master-HIP TDA9321 ne répond plus
22 Video: Détection mauvaise alimentation (Vcc 1er HIP)
23 Video: Correct Xtal. ident. (1er HIP)
24 Video: Slave-HIP 2ème TDA9321 non reconnu
25 Video: Détection mauvaise alimentation (Vcc 2nd HIP)
26 Video: Correct Xtal. ident. (2ème) HIP
27 Video: Commut. TEA6415C ne répond plus (ou 8V_5 non disponible)
28 PSI: TDA9178 ne répond plus
29 PSI: Détection mauvaise alimentation (Vcc PSI)
31 Déviation: TDA9330 (HOP) ne répond plus
32 Déviation: Détection mauvaise alimentation (Vcc HOP)
33 Déviation: Circuit de sécurité a detecté un problème. Problème bit FLS (information usine seulement)
34 Déviation: problème retour ligne. Problème bit NHF (information usine seulement)
35 Déviation: Oscillateur n'est pas verrouillé. problème bit NRF (information usine seulement)
36 Déviation:Tube ne chauffe pas à temps
37 Déviation: Problème déviation verticale.
38 Déviation : réservé
39 Déviation : réservé
41 Audio: MSP 34xx/44xx ne répond plus (ou 5V_A non disponible)
42 Audio: Dolby DPL4519 ne répond plus
43 Audio: Décoder AC3 MAS3528 ne répond plus
44 Audio: commut. Centre TEA6422 ne répond plus
45 Audio: mauvais MSP monté
46 Audio: problème de connexion de la platine Dolby digitale
47 Audio: réservé
48 Audio: réservé
49 Audio: réservés
51 Convertisseur: SDA9410 ne répond plus
52 A/D: Master ADC 1er SDA9206 ne répond plus
53 A/D: Slave ADC 2ème SDA9206 ne répond plus
54 NVM M24C64 ne répond plus
55 Portexpander TCE2ACU ne répond plus
56 Pas d'ackn. reservé
57 Pas d'ackn. reservé
58 Pas d'ackn. reservé
59 Pas d'ackn. reservé
61 HW: 5V (5V_V) non disponible
62 HW: 5V (5V_V) et 8V (8V_V) non disponibles
63 HW: Niveau incorrect sur la ligne Power_fail (trop bas)
64 HW:
65 HW:
66 HW:
67 HW:
68 HW:
69 HW:
réservé pour matériel
71 DVB unité
72 DVB unité
73 DVB unité
74 DVB unité
75 DVB unité
réservé pour DVB
76 réservé
77 rréservé
78 DVD ne répond plus
79 DVD : réservé pour DVD
81 RP
82 RP
83 RP
84 RP
86 RP
87 RP
réservé Rétroprojecteur
88 réservé
89 réservé

ERROR CODES

DE

11	I2C Bus_1 Data ist immer L
12	I2C Bus_1 Clock ist immer L
13	I2C Bus_2 Data ist immer L
14	I2C Bus_2 Clock ist immer L
15	I2C Bus_3 Data ist immer L
16	I2C Bus_3 Clock ist immer L
17	I2C Bus_4 Data ist immer L
18	I2C Bus_4 Clock ist immer L
21	Video: Haupt-Eingangsprozessor TDA9321 antwortet nicht
22	Video: Haupt-Eingangsproz. TDA9321 Betriebsspg. zu gering
23	Video: Haupt-Eingangsproz. TDA9321 Quarz nicht vorhanden
24	Video: 2. Eingangsproz. TDA9321 (PIP/TAK) antwortet nicht
25	Video: 2. Eingangsproz. TDA9321 Betriebsspg. zu gering
26	Video: 2. Eingangsproz. TDA9321 Quarz nicht vorhanden
27	Video: Eingangsschalter TEA6415C antwortet nicht (oder 8V_5 nicht vorhanden).
28	PSI: TDA9178 antwortet nicht
29	PSI: TDA9178 Betriebsspannung zu niedrig
31	Ablenkung: TDA9330 antwortet nicht
32	Ablenkung: TDA9330 Betriebsspannung zu gering
33	Ablenkung: Schutzschaltung ist aktiv (TDA9330 Pin 5 >2V)
34	Ablenkung: TDA9330 Pin 13 Zeilenrückschlagimpuls fehlt TDA9330 NHF Flag (nur für Produktionsstätten)
35	Ablenkung: TDA9330 Referenz-PLL nicht eingerastet TDA9330 NRF Flag (nur für Produktionsstätten)
36	Ablenkung: Bildrohr ist nicht rechtzeitig aufgeheizt
37	Ablenkung: Vertikal-Schutzschaltung aktiv
38	Ablenkung: reserviert
39	Ablenkung: reserviert
41	Audio: MSP 34xx/44xx antwortet nicht (oder 5V_A nicht vorhanden)
42	Audio: Dolby DPL4519 antwortet nicht
43	Audio: AC3-Decoder MAS3528 antwortet nicht
44	Audio: Schalter TEA6422 antwortet nicht
45	Audio: falscher MSP eingebaut
46	Audio: Problem mit Verbindung zur Digital-Platine
47	Audio: reserviert
48	Audio: reserviert
49	Audio: reserviert
51	Upconverter: SDA9410 antwortet nicht
52	A/D: Haupt-ADC SDA9206 antwortet nicht
53	A/D: 2. SDA9206 (PIP) antwortet nicht
54	NVM M24C64 antwortet nicht
55	Portexpander TCE2ACU antwortet nicht
56	Kein Acknowledge: reserviert
57	Kein Acknowledge: reserviert
58	Kein Acknowledge: reserviert
59	Kein Acknowledge: reserviert
61	Hardware: Geschaltete 5V (5V_V) nicht vorhanden
62	Hardware: Geschaltete 5V (5V_V) und 8V (8V_V) nicht vorhanden
63	Hardware: Unerwarteter Zustand auf Power_Fail Leitung
64	Hardware:
65	Hardware:
66	Hardware: — reserviert
67	Hardware:
68	Hardware:
69	Hardware:
71	DVB-Einheit:
72	DVB-Einheit:
73	DVB-Einheit: — reserviert für DVB
74	DVB-Einheit:
75	DVB-Einheit:
76	reserviert
77	reserviert
78	DVD antwortet nicht
79	DVD : reserviert
81	RP
82	RP
83	RP — reserviert für Rückprojektor
84	RP
86	RP
87	RP
88	reserviert
89	reserviert

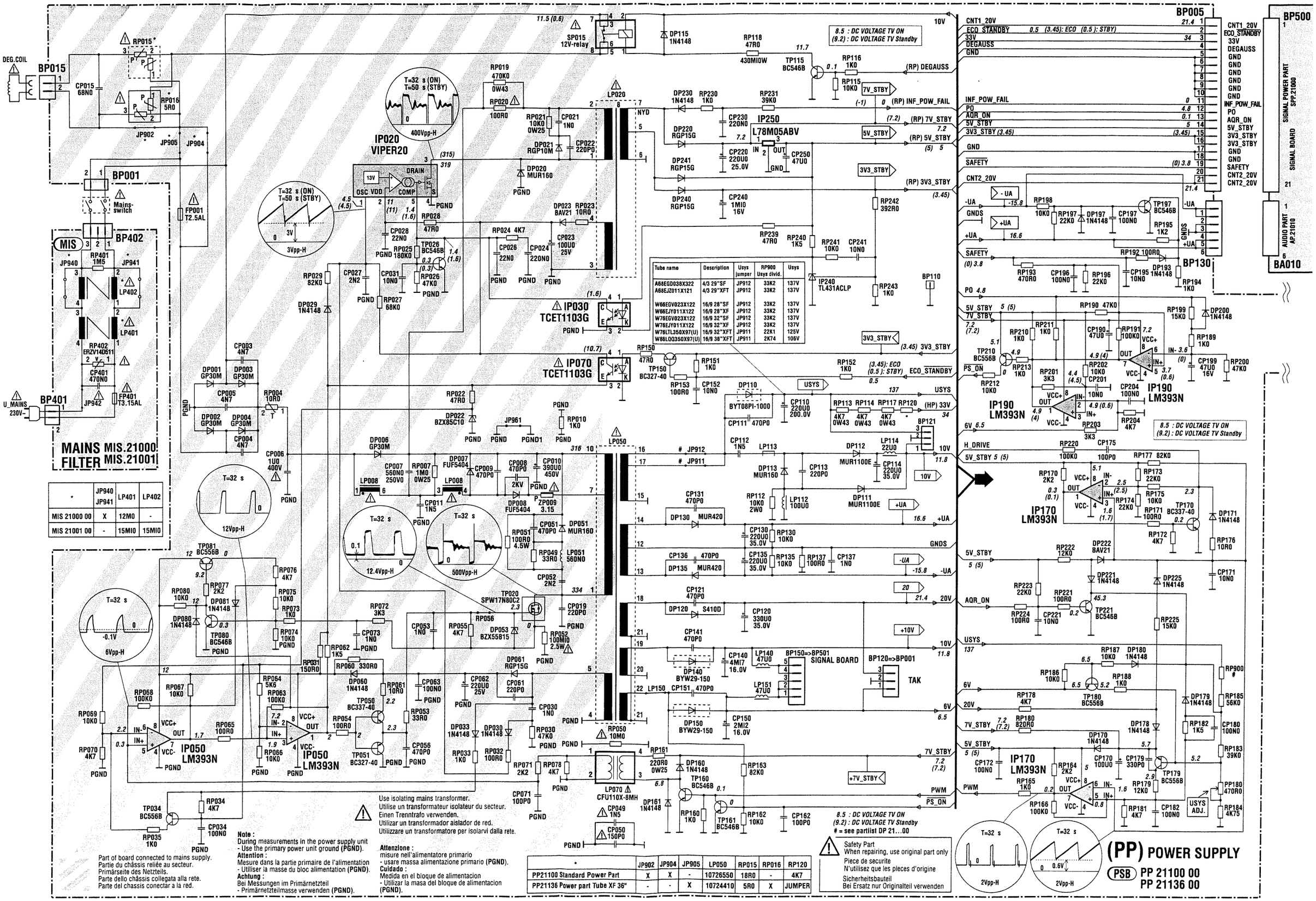
IT

11	I2Bus_ 1 Linea Dati forzata bassa.
12	I2 Bus_1 Linea Clock forzata bassa
13	I2CBus_2 Linea Dati forzata bassa
14	I2CBus_2 Linea Clock forzata bassa
15	I2CBus_ 3 Linea Dati forzata bassa
16	I2C Bus_ 3 Linea Clock forzata bassa
17	I2CBus_4 Linea Dati forzata bassa
18	I2C Bus_4 Linea clock forzata bassa
21	Video: Master-HIP 1 TDA9321 non risponde
22	Video: Rilevazione caduta alimentazione (Vcc 1 HIP)
23	Video: Correct Xtal. ident. (1 HIP)
24	Video: Slave-HIP 2 TDA9321 non riconosciuto
25	Video: Rilevazione caduta alimentazione (Vcc 2 HIP)
26	Video: Correct Xtal. ident. (2 HIP)
27	Video: Il commutatore TEA6451C non risponde (oppure la tensione 8V_5 non disponibile)
28	PSI: Il TDA9178 non risponde
29	PSI: Rilevazione caduta alimentazione (Vcc PSI)
31	Deflessione: TDA9330 (HOP) non risponde
32	Deflessione: Rilevazione caduta alimentazione (Vcc HOP)
33	Deflessione: Il circuito di protezione ha rilevato un'anomalia
34	Deflessione: Problema sul flyback orizzontale. Problema del bit NHF (informazione riservta alla fabbrica)
35	Deflessione: L'oscillatore non è controllato. Problema del bit NHF (informazione riservata alla fabbrica)
36	Deflessione: Il cinescopio non trasmette informazione tubo caldo nel tempo stabilito
37	Deflessione: Problema verticale
38	Deflessione : Riservato
39	Deflessione:Riservato
41	Audio: MSP34XX/44XX non risponde (oppure 5V-A non disponibili)
42	Audio: DPL4519 Dolby non risponde
43	Audio: Decoder AC3 MAS3528 non risponde
44	Audio: Il commutatore centrale TEA6422 non risponde
45	Audio: Utilizzato MSP non corretto
46	Audio: problema di connessione alla piastra digital Dolby
47	Audio: Riservato
48	Audio : Riservato
49	Audio :Riservato
51	Up converter: SDA9410 non risponde
52	A/D: Master ADC 1 SDA9206 non risponde
53	A/D: Slave ADC 2 SDA9206 non risponde
54	La memoria NVM M24C64 non risponde
55	Il Portexpander TCE2ACU non risponde
56	No ackn. reservato
57	No ackn. reservato
58	No ackn. reservato
59	No ackn. reservato
61	HW: Switch 5V (5V-V) non disponibile
62	HW : Switch 5V (5V-V9 e 8V (8V-V) non disponibili
63	HW: Inaspettato livello identificato sulla linea Power Fail (Tensione di rete troppo bassa)
64	HW:
65	HW:
66	HW: — reservato per hardware
67	HW:
68	HW:
69	HW:
71	DVB unit
72	DVB unit
73	DVB unit — reservato per DVB
74	DVB unit
75	DVB unit
76	reservato
77	reservato
78	DVD non risponde
79	DVD : DVD : riservato per DVD
81	RP
82	RP
83	RP — reservato per retroproiettore
84	RP
86	RP
87	RP
88	reservato
89	reservato

ES

11	Línea Data I2C _ 1 forzada a nivel bajo
12	Línea Clock I2C bus 1 forzada a nivel bajo
13	Línea Data I2C bus _ 2 forzada a nivel bajo
14	Línea Clock I2C bus_2 forzada a nivel bajo
15	Línea Data I2C bus _3 forzada a nivel bajo
16	Línea Clock I2C bus_3 forzada a nivel bajo
17	Línea Data I2c bus_4 forzada a nivel bajo
18	Línea Clock I2c bus_4 forzada a nivel bajo
21	Video: Master-HIP 1er TDA9321 no responde
22	Vídeo: Detección de apagado (Vcc 1er HIP)
23	Vídeo: Ident. de cristal correcto (1er HIP)
24	Vídeo: HIP esclavo del 2º TDA9321 no reconocido
25	Vídeo: Detección de apagado (Vcc 2º HIP)
26	Vídeo: Ident. de cristal correcto (2º HIP)
27	Vídeo: Conmutación TDA6415C no responde (o falta 8V_5)
28	PSI: TDA9178 no responde
29	PSI: Detección de apagado (Vcc PSI)
31	Deflexión: TDA9330 (HOP) no responde
32	Deflexión: Detección de apagado (Vcc HOP)
33	Deflexión: Circuito seguridad ha detectado un problema
34	Deflexión:Problema de retorno horizontal. Problema bit NHF (información sólo para fábrica)
35	Deflexión: Oscilador no fijado. Problema bit NRF (información sólo para fábrica)
36	Deflexión: El TRC no se calienta en el tiempo establecido
37	Deflexión: Problema de vertical
38	Deflexión: reservado
39	Deflexión: reservado
41	Audio: MSP 34xx/44xx no responde (o faltan 5V_A)
42	Audio: Dolby DPL4519 no responde
43	Audio: Decodificador AC3 MAS3528 no responde
44	Audio: TEA6422 no responde
45	Audio: Montado un MSP incorrecto
46	Audio: Problema de conexión a la placa Dolby digital
47	Audio: reservado
48	Audio: reservado
49	Audio: reservado
51	Supraconvertidor: SDA9410 no responde
52	A/D: Maestro ADC 1er SDA9206 no responde
53	A/D: Esclavo 2º SDA9206 no responde
54	La NVM M24C64 no responde
55	El expansor TCE2ACU no responde
56	Reservado
57	Reservado
58	Reservado
59	Reservado
61	HW: Faltan los 5V conmutados (5V_V)
62	HW: Faltan los 5V (5V_V) y 8V (8V_V) conmutados
63	HW: Encontrado un nivel inesperado en la línea Powe_fail (tensión de red baja)
64	HW:
65	HW:
66	HW: — reservado para hardware
67	HW:
68	HW:
69	HW:
71	Unidad DVB
72	Unidad DVB
73	Unidad DVB — reservado para DVB
74	Unidad DVB
75	Unidad DVB
76	reservado
77	reservado
78	DVD no responde
79	DVD: reservado para DVD
81	RP
82	RP
83	RP — reservado para retroproyector
84	RP
86	RP
87	RP
88	reservado
89	reservado

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS
POWER SUPPLY PART - PARTIE ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN

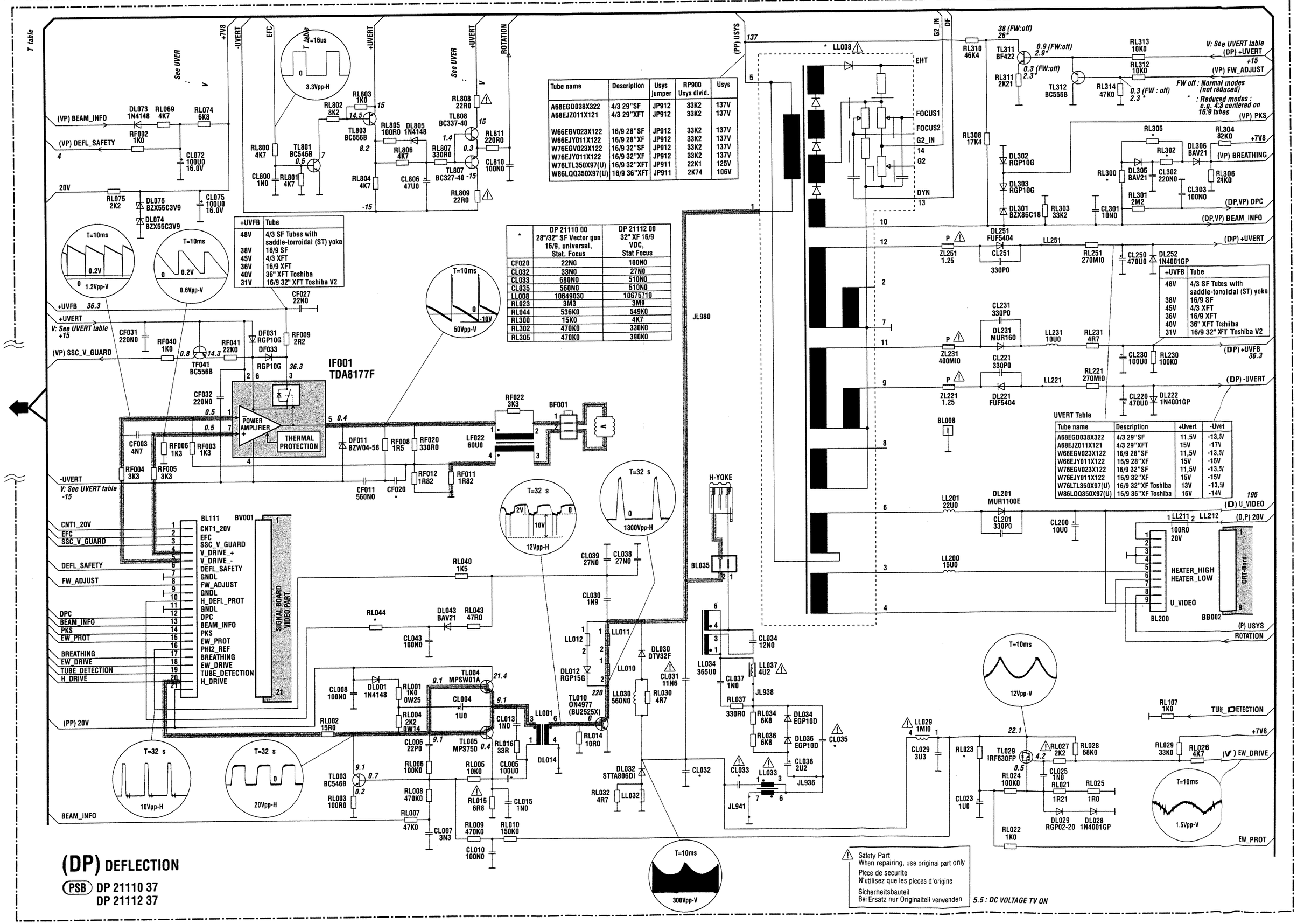


*	JP940 JP941	LP401	LP402
MIS 21000 00	X	12M0	-
MIS 21001 00	-	15MI0	15MI0

Tube name	Description	Usys jumper	RP900 Usys divid.	Usys
A68EGD038X322	4/3 29"SF	JP912	33K2	137V
A68EJZ011X121	4/3 29"XFT	JP912	33K2	137V
W66EGV023X122	16/9 28"SF	JP912	33K2	137V
W66EJY011X122	16/9 28"XF	JP912	33K2	137V
W76EGV023X122	16/9 32"SF	JP912	33K2	137V
W76EJY011X122	16/9 32"XF	JP912	33K2	137V
W76LTL350X97(U)	16/9 32"XFT	JP911	22K1	125V
W86LQQ350X97(U)	16/9 36"XFT	JP911	2K74	106V

*	JP902	JP904	JP905	LP050	RP015	RP016	RP120
PP21100 Standard Power Part	X	X	-	10726550	18R0	-	4K7
PP21136 Power part Tube XF 36"	-	-	X	10724410	5R0	X	JUMPER

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE - 28/32" SF 16:9 TUBES - 28/32" XF 16:9 TUBES



Tube name	Description	Usys jumper	RP900 Usys divid.	Usys
A68EGD038X322	4/3 29"SF	JP912	33K2	137V
A68EJZ011X121	4/3 29"XFT	JP912	33K2	137V
W66EGV023X122	16/9 28"SF	JP912	33K2	137V
W66EJY011X122	16/9 28"XF	JP912	33K2	137V
W76EGV023X122	16/9 32"SF	JP912	33K2	137V
W76EJY011X122	16/9 32"XF	JP912	33K2	137V
W76LTL350X97(U)	16/9 32"XFT	JP911	22K1	125V
W86LQQ350X97(U)	16/9 36"XFT	JP911	2K74	106V

+UVFB	Tube
48V	4/3 SF Tubes with saddle-toroidal (ST) yoke
38V	16/9 SF
45V	4/3 XFT
36V	16/9 XFT
40V	36" XFT Toshiba
31V	16/9 32" XFT Toshiba V2

*	DP 21110 00 28"/32" SF Vector gun 16/9, universal, Stat. Focus	DP 21112 00 32" XF 16/9 VDC, Stat Focus
CF020	22N0	100N0
CL032	33N0	27N0
CL033	680N0	510N0
CL035	560N0	510N0
LL008	10649030	10675710
RL023	3M3	3M9
RL044	536K0	549K0
RL300	15K0	4K7
RL302	470K0	330K0
RL305	470K0	390K0

UVERT Table			
Tube name	Description	+Uvert	-Uvert
A68EGD038X322	4/3 29"SF	11,5V	-13,5V
A68EJZ011X121	4/3 29"XFT	15V	-17V
W66EGV023X122	16/9 28"SF	11,5V	-13,5V
W66EJY011X122	16/9 28"XF	15V	-15V
W76EGV023X122	16/9 32"SF	11,5V	-13,5V
W76EJY011X122	16/9 32"XF	15V	-15V
W76LTL350X97(U)	16/9 32"XF Toshiba	13V	-13,5V
W86LQQ350X97(U)	16/9 36"XF Toshiba	16V	-14V

+UVFB	Tube
48V	4/3 SF Tubes with saddle-toroidal (ST) yoke
38V	16/9 SF
45V	4/3 XFT
36V	16/9 XFT
40V	36" XFT Toshiba
31V	16/9 32" XFT Toshiba V2

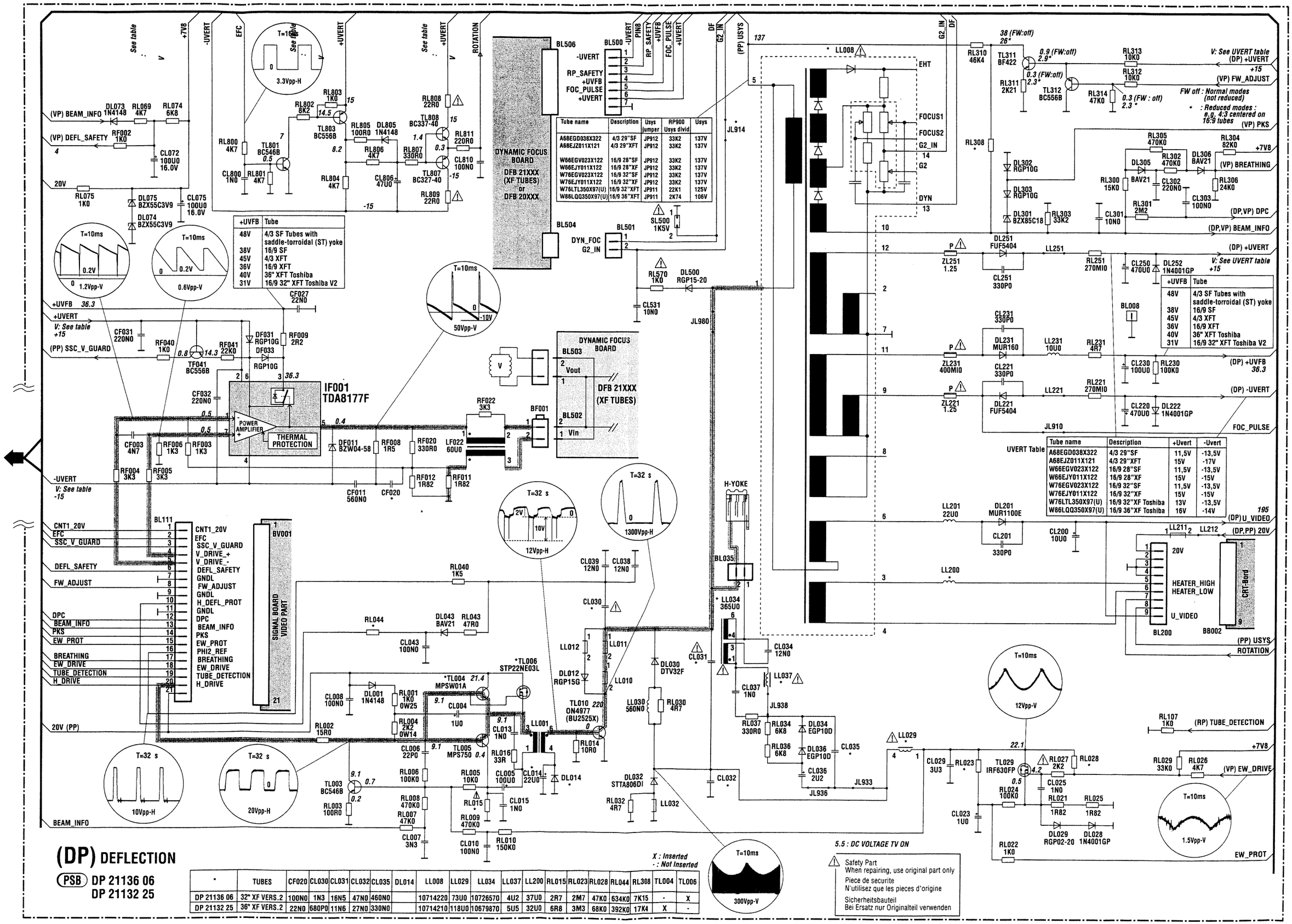
⚠ Safety Part
When repairing, use original part only
Piece de securite
N'utilisez que les pieces d'origine
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

5.5 : DC VOLTAGE TV ON

(DP) DEFLECTION

(PSB) DP 21110 37
DP 21112 37

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE - 32" XF TOSH.V2 TUBES - 36" XF TOSH.V2 TUBES



Tube name	Description	Usys jumper	RP900 Usys divid	Usys
A68EGD038X322	4/3 29"SF	JP912	33K2	137V
A68EJZ011X121	4/3 29"XFT	JP912	33K2	137V
W66EGV023X122	16/9 28"SF	JP912	33K2	137V
W66EJY011X122	16/9 28"XF	JP912	33K2	137V
W76EGV023X122	16/9 32"SF	JP912	33K2	137V
W76EJY011X122	16/9 32"XF	JP912	33K2	137V
W76LTL350X97(U)	16/9 32"XFT	JP911	22K1	125V
W86LQQ350X97(U)	16/9 36"XFT	JP911	2K74	106V

+UVFB	Tube
48V	4/3 SF Tubes with saddle-torroidal (ST) yoke
38V	16/9 SF
45V	4/3 XFT
36V	16/9 XFT
40V	36" XFT Toshiba
31V	16/9 32" XFT Toshiba V2

+UVFB	Tube
48V	4/3 SF Tubes with saddle-torroidal (ST) yoke
38V	16/9 SF
45V	4/3 XFT
36V	16/9 XFT
40V	36" XFT Toshiba
31V	16/9 32" XFT Toshiba V2

UVERT Table

Tube name	Description	+Uvert	-Uvert
A68EGD038X322	4/3 29"SF	11,5V	-13,5V
A68EJZ011X121	4/3 29"XFT	15V	-17V
W66EGV023X122	16/9 28"SF	11,5V	-13,5V
W66EJY011X122	16/9 28"XF	15V	-15V
W76EGV023X122	16/9 32"SF	11,5V	-13,5V
W76EJY011X122	16/9 32"XF	15V	-15V
W76LTL350X97(U)	16/9 32"XF Toshiba	13V	-13,5V
W86LQQ350X97(U)	16/9 36"XF Toshiba	16V	-14V

(DP) DEFLECTION

(PSB) DP 21136 06
DP 21132 25

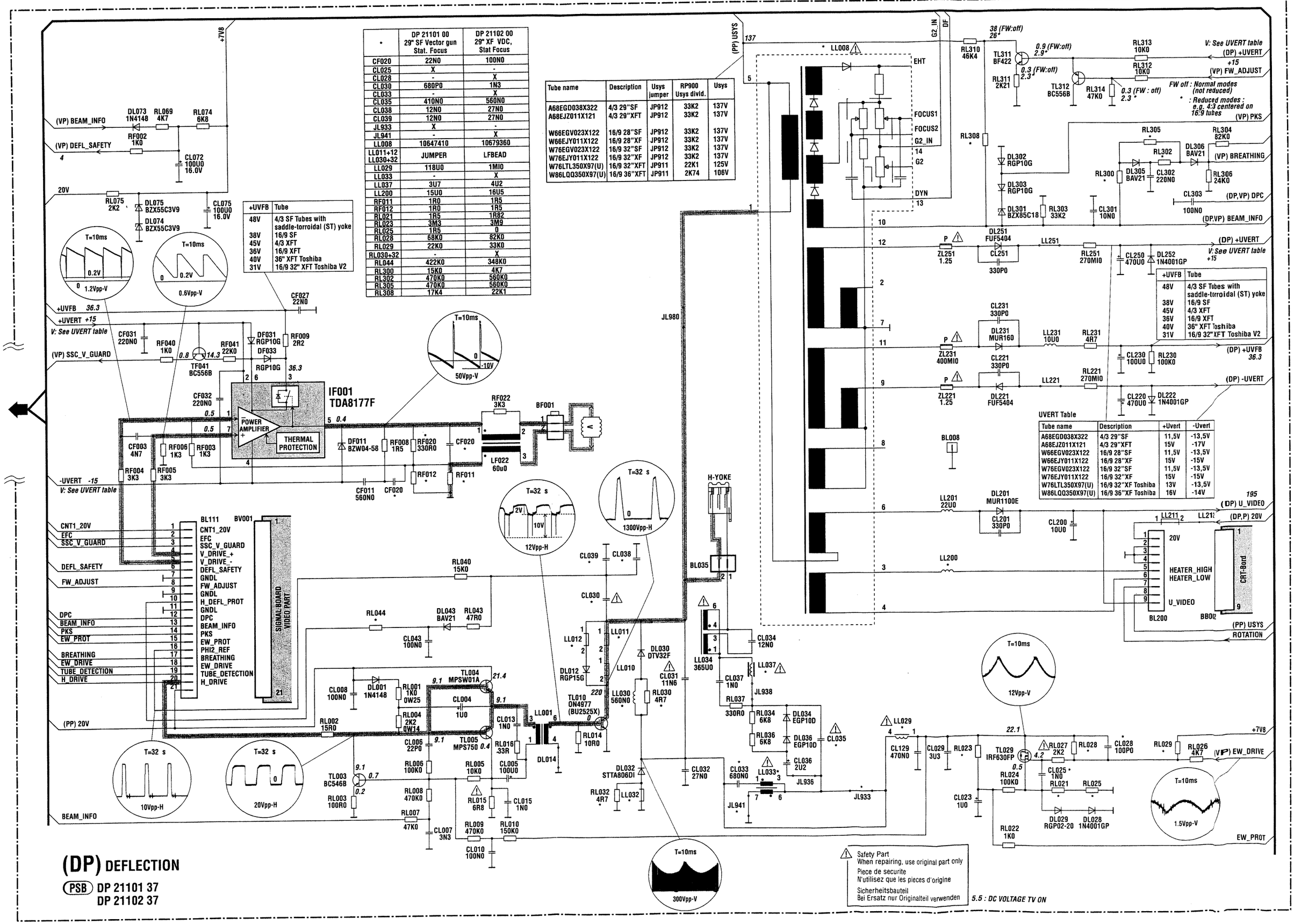
*	TUBES	CF020	CL030	CL031	CL032	CL035	DL014	LL008	LL029	LL034	LL037	LL200	RL015	RL023	RL028	RL044	RL308	TL004	TL006
DP 21136 06	32" XF VERS.2	100N0	1N3	16N5	47N0	460N0		10714220	73U0	10726570	4U2	37U0	2R7	2M7	47K0	634K0	7K15	-	X
DP 21132 25	36" XF VERS.2	22N0	680P0	11N6	27N0	330N0		10714210	118U0	10679870	5U5	32U0	6R8	3M3	68K0	392K0	17K4	X	-

X : Inserted
- : Not Inserted

5.5 : DC VOLTAGE TV ON

⚠ Safety Part
When repairing, use original part only
Piece de securite
N'utilisez que les pieces d'origine
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE - 29" SF TUBES - 29" XF 4:3 TUBES



*	DP 21101 00 29" SF Vector gun Stat. Focus	DP 21102 00 29" XF VDC, Stat Focus
CF020	22N0	100N0
CL025	X	-
CL028	-	X
CL030	680P0	1N3
CL033	-	X
CL035	410N0	560N0
CL038	12N0	27N0
CL039	12N0	27N0
JL933	X	-
JL941	-	X
LL008	10647410	10679360
LL011+12 LL030+32	JUMPER	LFBEAD
LL029	118U0	1MI0
LL033	-	X
LL037	3U7	4U2
LL200	15U0	16U5
RF011	1R0	1R5
RF012	1R0	1R5
RL021	1R5	1R82
RL023	3M3	3M9
RL025	1R5	0
RL028	68K0	82K0
RL029	22K0	33K0
RL030+32		X
RL044	422K0	348K0
RL300	15K0	4K7
RL302	470K0	560K0
RL305	470K0	560K0
RL308	17K4	22K1

Tube name	Description	Usys jumper	RP900 Usys divid.	Usys
A68EGD038X322	4/3 29"SF	JP912	33K2	137V
A68EJZ011X121	4/3 29"XFT	JP912	33K2	137V
W66EGV023X122	16/9 28"SF	JP912	33K2	137V
W66EJY011X122	16/9 28"XF	JP912	33K2	137V
W76EGV023X122	16/9 32"SF	JP912	33K2	137V
W76EJY011X122	16/9 32"XF	JP912	33K2	137V
W76LTL350X97(U)	16/9 32"XFT	JP911	22K1	125V
W86LQQ350X97(U)	16/9 36"XFT	JP911	2K74	106V

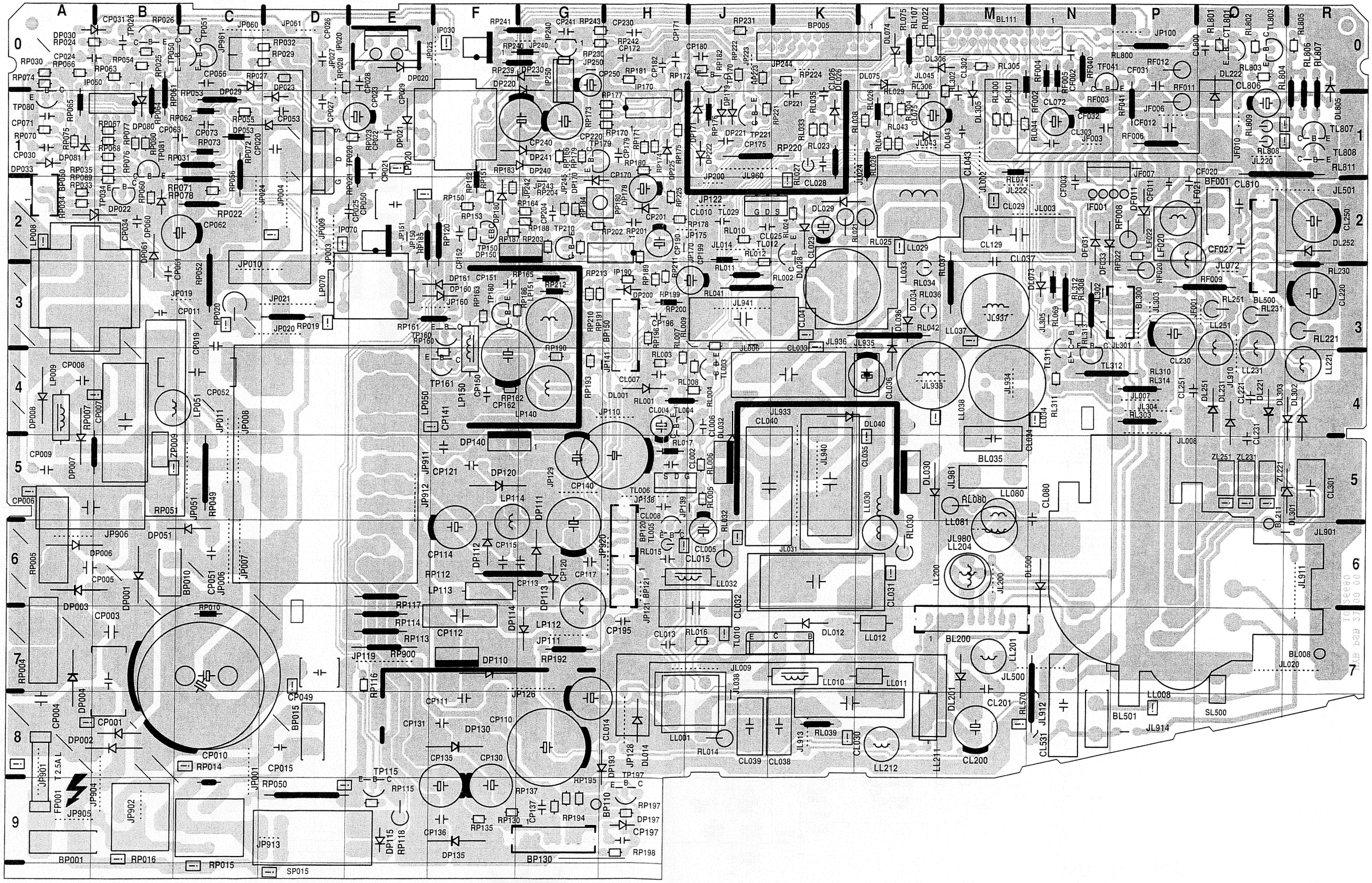
+UVFB	Tube
48V	4/3 SF Tubes with saddle-torroidal (ST) yoke
38V	16/9 SF
45V	4/3 XFT
36V	16/9 XFT
40V	36" XFT Toshiba
31V	16/9 32" XFT Toshiba V2

(DP) DEFLECTION

(PSB) DP 21101 37
DP 21102 37

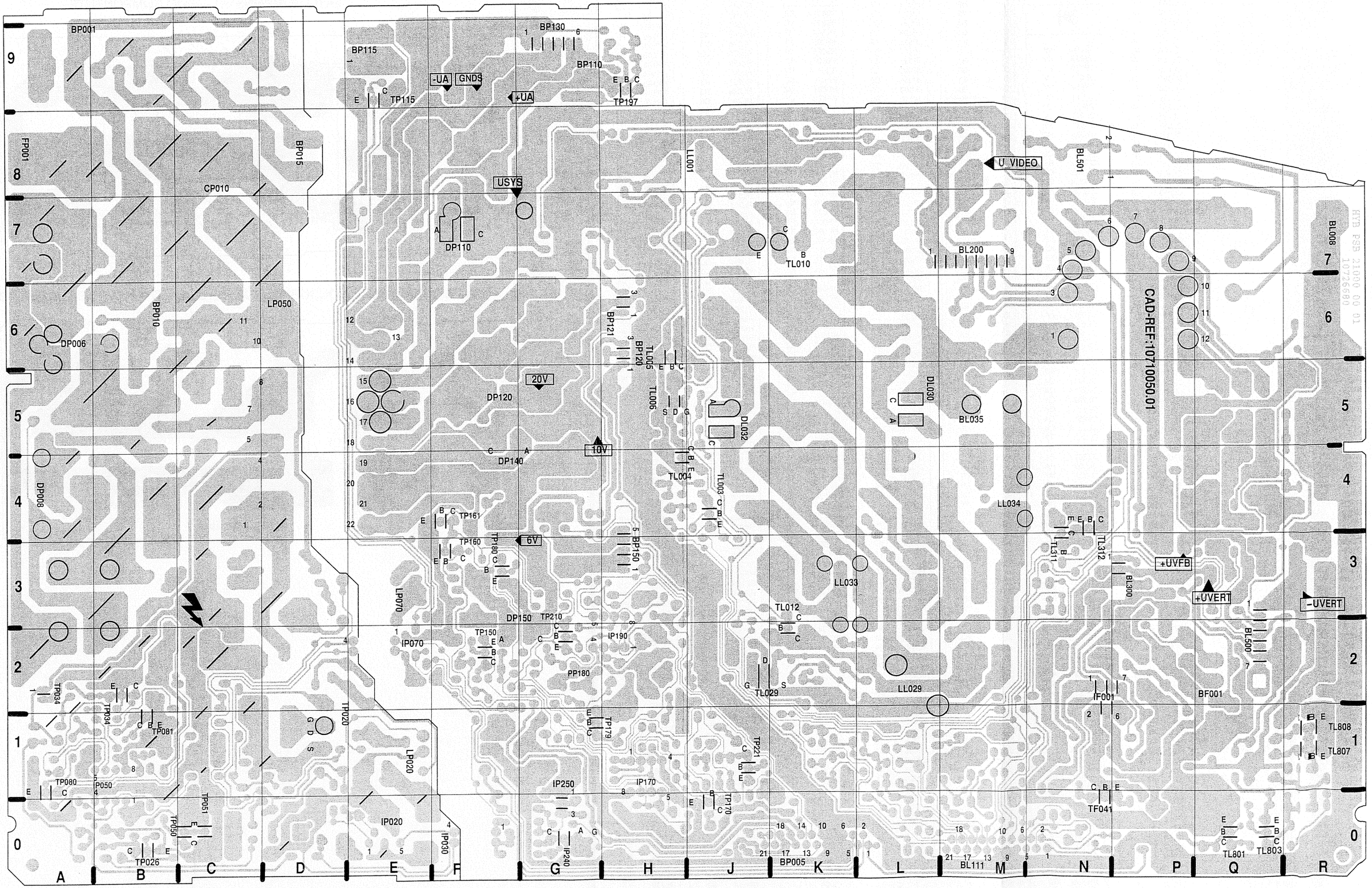
POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE - LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

POWER / SCAN BOARD - PLATINE ALIMENTATION / BALAYAGE - NETZTEIL- UND ABLENKPLATINE - PIASTRA DEFLESSIONE / ALIMENTAZIONE - PLACA ALIMENTACIÓN / BARRIDOS

1 2 3

BB001	KV
BB002	M9
BB003	PZ
BB004	N9
BB007	P9
BB009	N9
BB010	NV
BF001	Q2
BG003	R9
BJ004	FZ
BJ010	GV
BJ011	FV
BK101	DZ
BL008	R7
BL035	M5
BL111	M0
BL200	M7
BL211	Q6
BL300	P3
BL500	Q2
BL501	N8
BP001	A9
BP005	K0
BP010	B6
BP015	D8
BP050	A2
BP110	G9
BP120	H6
BP121	H6
BP130	G9
BP150	H3
BQ009	JZ
BQ012	JV

CB001	QZ
CB003	M9
CB004	KV
CB005	LV
CB006	K9
CF002	N0
CF003	N2
CF011	P2
CF012	P1
CF020	P2
CF027	Q2
CF031	P0
CF032	N1
CG001	Q8
CG002	RV
CG003	MZ
CG004	RZ
CG005	Q9
CG006	QZ
CG007	QV
CG009	Q9
CG010	RZ
CG012	R8
CG031	MV
CG048	Q9
CG052	LZ
CG053	KZ
CG054	LZ
CJ003	GZ
CJ004	GZ
CK102	BV
CL002	H5
CL004	H4
CL005	J6
CL006	J4
CL007	H4
CL008	H5
CL010	J2
CL013	H7
CL014	G8
CL015	H6
CL023	K2
CL025	J2
CL026	K1
CL028	K1
CL029	M2
CL030	K8
CL031	K6
CL031A	K6
CL032	J7
CL033	K4
CL034	M5
CL035	K5
CL035A	K5
CL036	L4
CL036A	L4
CL037	M2
CL038	K8

CL039	J8
CL040	J5
CL041	J3
CL043	M1
CL072	N1
CL075	L1
CL080	N5
CL129	M2
CL200	M8
CL201	M7
CL220	R3
CL221	Q4
CL230	P3
CL231	Q5
CL250	R2
CL251	P4
CL301	R5
CL301A	R5
CL302	M1
CL303	N1
CL531	N8
CL800	Q0
CL806	Q1
CL810	Q2
CP001	B7
CP003	B7
CP004	A8
CP005	A6
CP006	A5
CP007	B4
CP008	A4
CP009	A5
CP010	C7
CP010A	C7
CP011	B3
CP015	D8
CP019	C3
CP020	D1
CP021	E1
CP022	E1
CP023	E1
CP024	B0
CP025	E2
CP026	D0
CP027	D1
CP028	E0
CP029	E1
CP030	A1
CP031	B0
CP034	B2
CP049	D7
CP050	E2
CP051	C6
CP052	C4
CP053	D1
CP056	C0
CP061	B3
CP062	C2
CP063	C1
CP071	A1
CP073	C1
CP110	G8
CP111	F8
CP112	F7
CP113	G6
CP114	F6
CP115	F6
CP117	G6
CP120	G6
CP121	F5
CP130	F9
CP131	F8
CP135	F9
CP136	F9
CP137	G9
CP140	H5
CP140A	G5
CP141	F5
CP150	F4
CP151	F3
CP152	F2
CP162	F4
CP170	H2
CP171	H0
CP172	H0
CP175	J1
CP179	H1
CP180	J0
CP182	H0
CP190	H2
CP195	H7
CP196	H3
CP197	H9
CP199	J3
CP201	H2
CP204	G2
CP220	G1
CP221	K1
CP230	H0
CP240	G1
CP241	G0

CP250	G0
CQ003	HZ
CQ004	HZ

DB004	K9
DB006	K9
DB030	LV
DB031	LV
DB050	LV
DB051	LV
DB070	LV
DB071	LV
DF011	P2
DF031	N2
DF033	N2
DG001	Q8
DG002	R8
DG003	QV
DG004	QV
DG026	N9
DL001	H4
DL012	K7
DL014	H8
DL026	K1
DL028	K2
DL029	K2
DL030	L5
DL030A	L5
DL030X	K5
DL032	J5
DL032A	J5
DL034	L3
DL036	L4
DL040	K4
DL043	L1
DL073	N3
DL074	L0
DL075	L0
DL201	M7
DL221	Q4
DL221A	Q4
DL222	Q1
DL231	Q4
DL251	Q4
DL251A	Q4
DL252	R2
DL301	R5
DL302	R4
DL303	R4
DL305	M1
DL306	L0
DL500	N6
DL805	R0
DP001	B6
DP001A	B6
DP002	B8
DP002A	B8
DP003	A6
DP003A	A6
DP004	A7
DP004A	A7
DP006	A6
DP007	A5
DP008	A4
DP020	E0
DP021	E1
DP022	B2
DP023	D1
DP029	C0
DP030	B0
DP033	A1
DP051	C6
DP053	D1
DP060	B2
DP061	B2
DP080	B1
DP081	A1
DP110	F7
DP110A	F7
DP111	G6
DP112	F6
DP113	G6
DP114	G7
DP115	E9
DP120	F5
DP120A	F5
DP130	F8
DP130A	F8
DP135	F9
DP135A	F9
DP140	F5
DP150	G2
DP150B	G3
DP160	F3
DP161	F3
DP170	G2
DP171	J1

DP178	H2
DP179	J1
DP180	F2
DP193	H8
DP197	H9
DP200	H3
DP220	G1
DP221	J1
DP222	J1
DP225	H1
DP230	G0
DP240	G1
DP241	G1

FIX10	D3
FIXA01	N4
FP001	A8

GE101	AV
GK101	BV

IB001	KV
IB001A	LV
IF001	N2
IF001A	N1
IP020	E0
IP020A	E0
IP030	F0
IP050	B1
IP070	E2
IP170	H1
IP190	H2
IP240	G0
IP250	G0

JB009	N9
JF001	Q3
JF003	N1
JF006	P1
JF007	P1
JF010	Q1
JJ001	FV
JL002	M1
JL003	N2
JL006	J3
JL007	P4
JL008	P4
JL009	J7
JL014	J2
JL020	R7
JL024	K1
JL031	K5
JL038	J8
JL043	L1
JL045	L0
JL072	Q3
JL200	M6
JL220	Q1
JL222	M2
JL301	P3
JL302	N3
JL303	P3
JL304	P4
JL305	N3
JL500	N7
JL501	R2
JL901	R6
JL910	Q4
JL911	R6
JL912	N8
JL913	K8
JL914	P8
JL933	K5
JL934	M4
JL935	L3
JL936	K3
JL937	M3
JL938	L4
JL940	K5
JL941	J3
JL960	J1
JL980	M6
JL981	M5
JP001	C8
JP003	D2
JP004	D2
JP006	C6
JP007	C6
JP008	C5

JP009	D2
JP010	C3
JP011	C5
JP019	C3
JP020	D3
JP021	D3
JP024	C2
JP025	F0
JP027	D0
JP051	C5
JP060	C0
JP061	D0
JP100	P0
JP110	H4
JP111	G7
JP119	E7
JP121	H6
JP122	J2
JP126	G7
JP128	H8
JP129	G5
JP138	H5
JP139	J5
JP141	G4
JP150	E2
JP151	E2
JP160	F3
JP170	H2
JP175	H2
JP200	J2
JP223	J0
JP240	G0
JP242	G2
JP243	G2
JP244	K0
JP245	G1
JP250	G0
JP901	A8
JP902	B9
JP904	B9
JP905	A9
JP906	A6
JP911	E5
JP912	E5
JP913	D9
JP920	H6
JP961	C0

LB006	L9
LF020	P2
LF021	P2
LF022	P2
LG001	RV
LJ001	HZ
LJ002	GZ
LL001	J8
LL001A	J8
LL008	P6
LL010	K7
LL011	L7
LL012	L7
LL029	L2
LL030	L5
LL030A	L6
LL032	J6
LL033	K3
LL033A	K3
LL034	M4
LL037	M3
LL038	L4
LL080	M5
LL081	M6
LL200	M6
LL201	M7
LL204	M6
LL211	L8
LL212	L8
LL221	R4
LL231	Q3
LL251	Q3
LP008	A3
LP008A	A3
LP009	A4
LP020	F1
LP050	D5
LP051	B4
LP070	E3
LP112	G7
LP113	F6
LP114	F6
LP140	G4
LP150	F4
LP151	G3

PP180	G2

RB001	PZ
RB002	M9
RB004	MV
RB005	K9
RB006	K9
RB007	K9
RB011	KV
RB021	KZ
RB031	MZ
RB032	LV
RB041	LV
RB051	NZ
RB052	LV
RB061	KV
RB071	MV
RB072	LV
RB079	M9
RE102	CZ
RF002	M0
RF003	N1
RF004	N0
RF005	N0
RF006	P1
RF008	P2
RF009	Q3
RF011	P1
RF012	P0
RF020	P3
RF022	P2
RF040	N0
RF041	P1
RG001	LZ
RG002	LZ
RG003	KZ
RG004	KZ
RG005	QZ
RG006	RZ
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RG008	RZ
RG009	QZ
RG010	RZ
RG011	Q9
RG012	Q9
RG013	R8
RG014	QV
RG016	RZ
RG019	RV
RG021	R9
RG023	R8
RG026	QV
RG027	Q9
RG029	Q9
RG030	N9
RG032	R9
RG039	LZ
RG040	MZ
RG041	QZ
RG042	Q9
RK101	DV
RK102	CV
RK103	DV
RK104	CV
RK105	BZ
RK106	BZ
RL001	H4
RL002	J3
RL003	H4
RL004	J4
RL005	J5
RL006	J5
RL007	H4
RL008	J4
RL009	J3
RL010	J2
RL011	J2
RL012	J2
RL014	J8
RL015	H6
RL016	J7
RL017	H5
RL021	K2
RL022	L0
RL023	K1
RL024	K2
RL025	L2
RL026	L1
RL027	K1
RL028	L1
RL029	L1
RL030	L6
RL032	J6
RL033	K1
RL034	L3
RL035	K1
RL036	L3
RL037	M3
RL038	L1

RL039	K8
RL040	L1
RL041	J3
RL042	L3
RL043	L1
RL044	M1
RL069	N3
RL074	M1
RL075	L0
RL080	M5
RL107	L0
RL221	R3
RL230	R3
RL231	Q3
RL251	Q3
RL300	M1
RL301	M1
RL302	M1
RL303	P4
RL304	L1
RL305	M0
RL306	L1
RL308	N3
RL310	N4
RL311	N4
RL312	N3
RL313	N3
RL314	P4
RL570	N7
RL800	P0
RL801	Q0
RL802	Q0
RL803	Q0
RL804	R1
RL805	R0
RL806	R1
RL807	R1
RL808	Q1
RL809	Q1
RL811	Q1
RP004	A7
RP005	A6
RP007	B5
RP010	C7
RP014	C9
RP015	C9
RP016	B9
RP019	D3
RP020	C3
RP021	E1
RP022	C2
RP023	E1
RP024	B0
RP025	B0
RP026	C0
RP027	D0
RP028	D0
RP029	D0
RP030	A0
RP031	C1
RP032	D0
RP033	A2
RP034	A2
RP035	B1
RP049	C5
RP050	D9
RP051	B4
RP052	C3
RP053	C1
RP054	B0
RP055	C1
RP056	C1
RP060	B2
RP061	B1
RP062	C1
RP063	B0
RP064	B1
RP065	A1
RP066	A0
RP067	B1
RP068	B1
RP069	B2
RP070	A1
RP071	C2
RP072	C1
RP073	C1
RP074	A0
RP075	A1
RP076	B1
RP077	B1
RP078	C2
RP080	B1
RP112	F6
RP113	E7
RP114	E7
RP115	E9
RP116	E7
RP117	E6
RP118	E9
RP120	F2
RP130	F9

RP135	F9
RP137	G9
RP150	F2
RP151	F2
RP152	F2
RP153	F2
RP160	F4
RP161	F3
RP162	F4
RP163	F3
RP164	G2
RP165	G3
RP166	G1
RP170	H1
RP171	H1
RP172	H1
RP173	H1
RP174	H1
RP175	H1
RP176	J1
RP177	H1
RP178	H2
RP179	G1
RP180	H1
RP181	H0
RP182	J0
RP183	F2
RP184	G2
RP185	E2
RP186	G3
RP187	F2
RP188	G2
RP189	H3
RP190	G4
RP191	G3
RP192	G7
RP193	G4
RP194	G9
RP195	G9
RP196	H3
RP197	H9
RP198	H9
RP199	H3
RP200	H3
RP201	H2
RP202	G2
RP203	G2
RP204	G2
RP210	G3
RP211	H3
RP212	G3
RP213	G2
RP220	J1
RP221	J1
RP222	J0
RP223	J0
RP224	K0
RP225	H2
RP230	G0
RP231	J0
RP239	G0
RP240	G0
RP241	G0
RP242	G0
RP243	G0
RP900	E7
RQ005	HZ
RQ006	JZ

SK101	EV
SK102	DV
SK103	DV
SK104	CV
SL500	Q7
SP015	D9

TB001	K9
TF041	N0
TG001	QZ
TG002	QZ
TG003	QV
TG006	RV
TG007	R9
TG011	MZ
TL003	J4
TL004	H4
TL005	H6
TL006	H5
TL010	K7
TL012	K2
TL028A	J1
TL029	J2
TL030A	K8

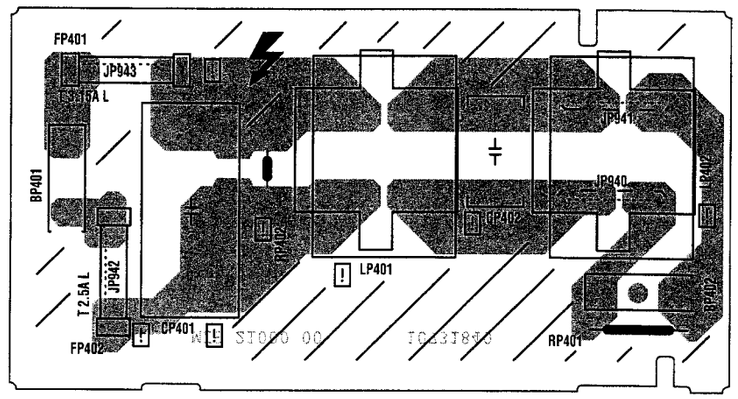
TL311	N3
TL312	N4
TL801	Q0
TL803	Q0
TL807	R1
TL808	R1
TP020	D1
TP020A	D1
TP026	B0
TP034	B2
TP050	C0
TP051	C0
TP080	A1
TP081	B1
TP115	E9
TP150	F2
TP160	F3
TP161	F4
TP170	J0
TP179	G1
TP180	F3
TP197	H9
TP210	G2
TP221	J1

P

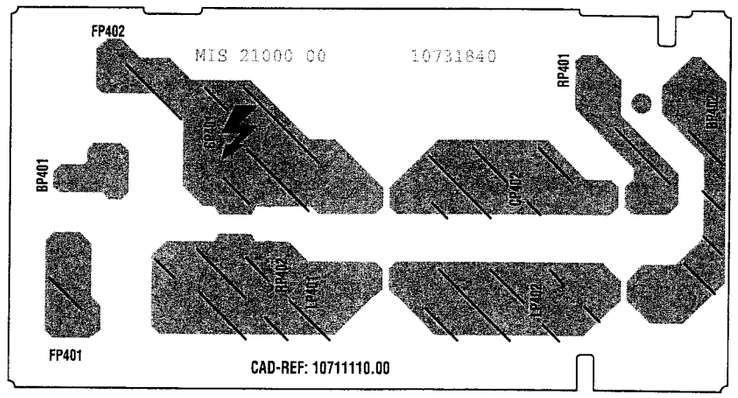
ZL221	Q5
ZL231	Q5
ZL251	Q5
ZP009	B5

MAINS FILTER - FILTRE SECTEUR
MIS21000 - MIS21001

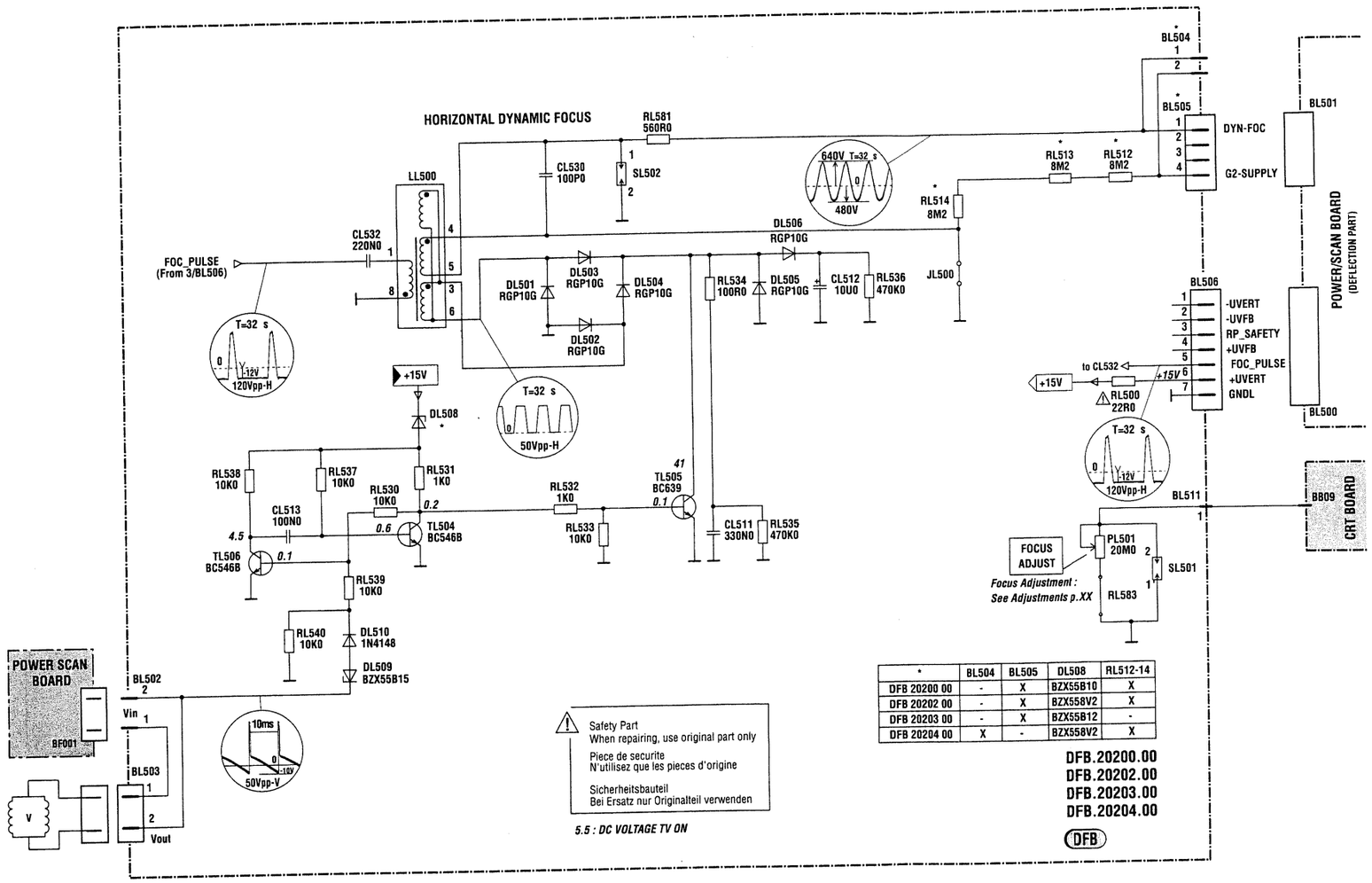
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

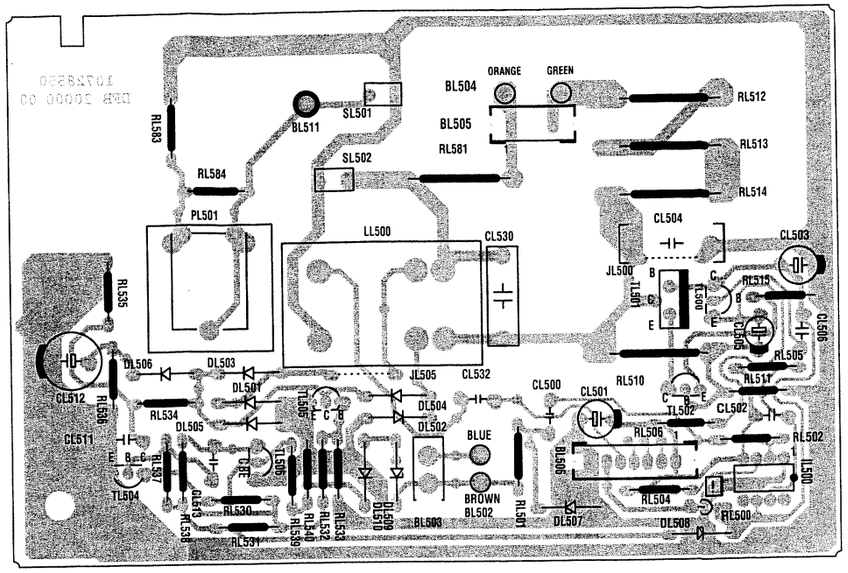


DYNAMIC FOCUS MODULE - MODULE FOCUS DYNAMIQUE - DYNAMIKFOKUS BAUSTEIN - MODULO FUOCO DINAMICO - MÓDULO FOCO DINÁMICO
XFT TUBES 32" V2 - DFB. 20200.00 - DFB.20202.00 - DFB.20203.00

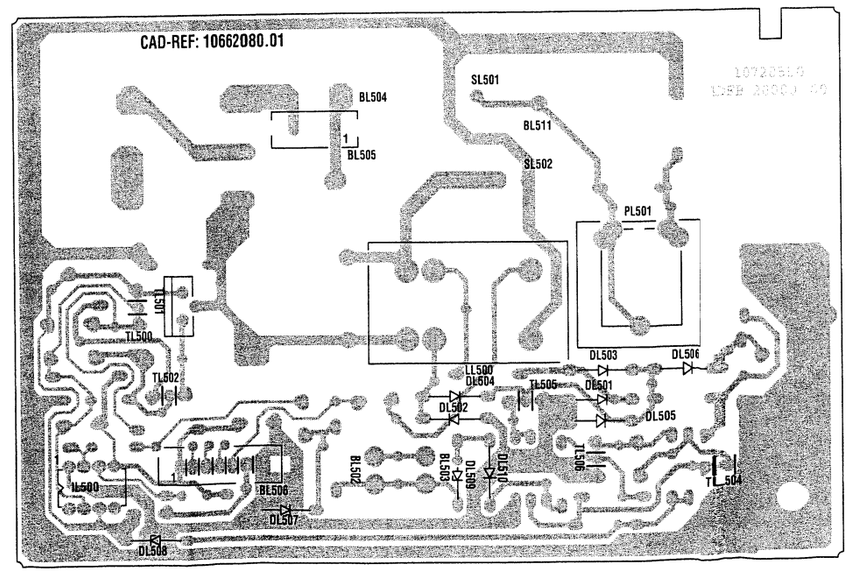


*	BL504	BL505	DL508	RL512-14
DFB 20200 00	-	X	BZX55B10	X
DFB 20202 00	-	X	BZX558V2	X
DFB 20203 00	-	X	BZX55B12	-
DFB 20204 00	X	-	BZX558V2	X

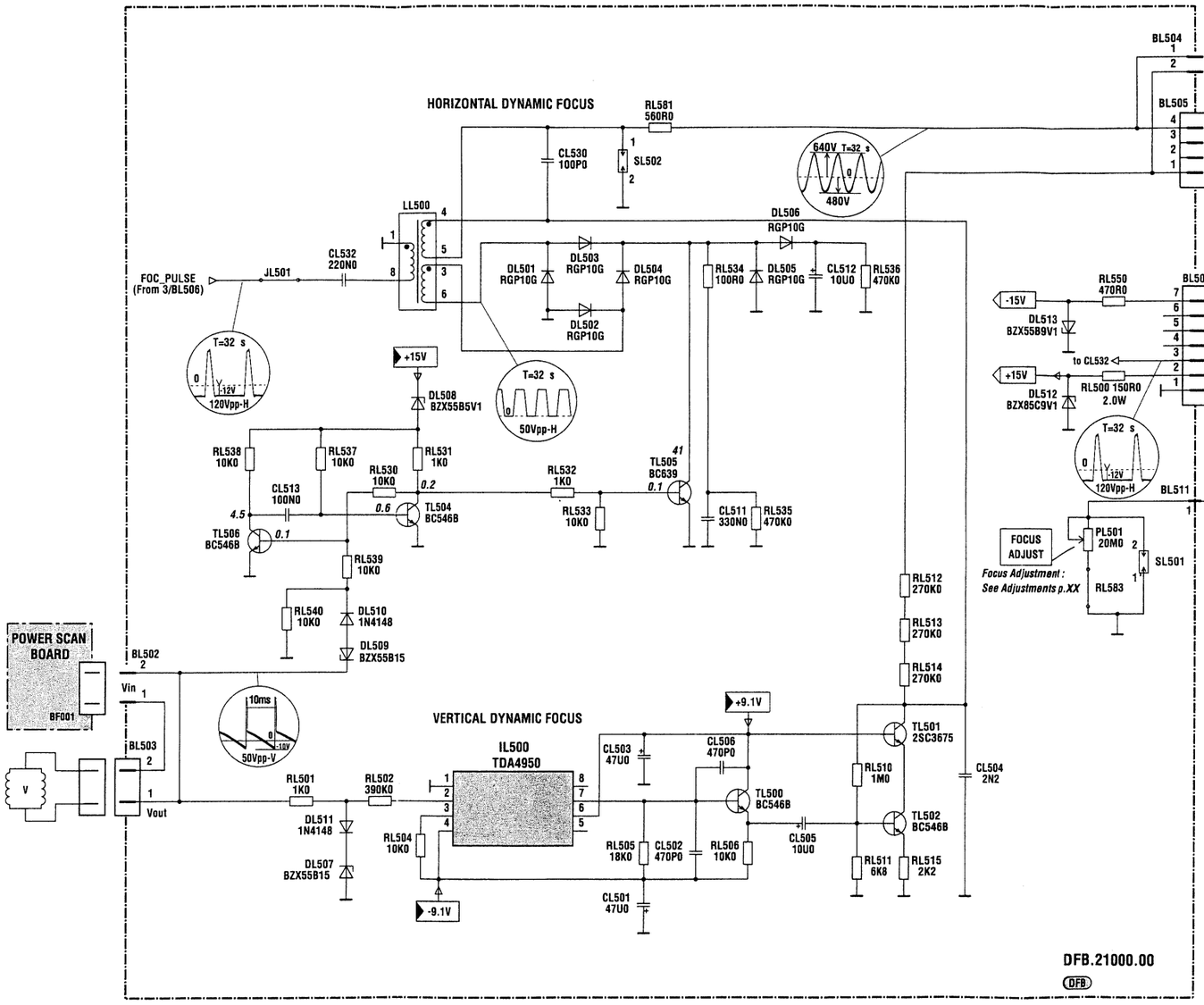
COMPONENT SIDE - CÖTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



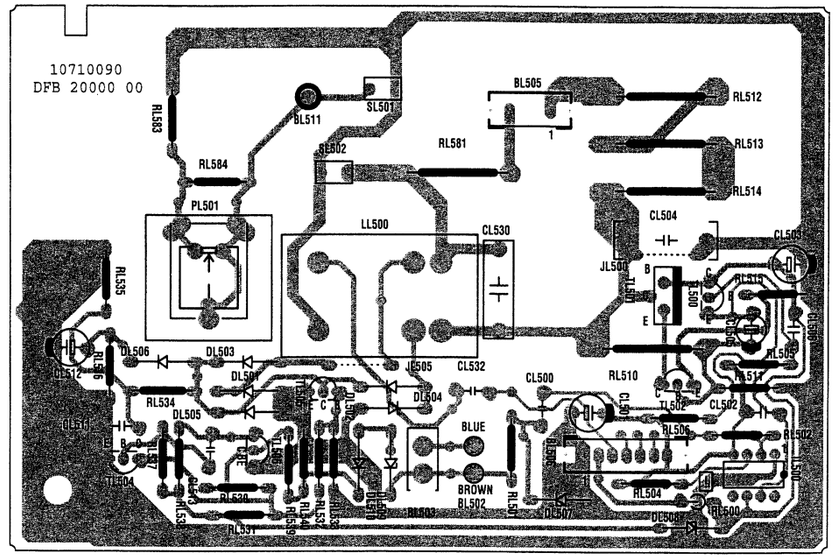
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



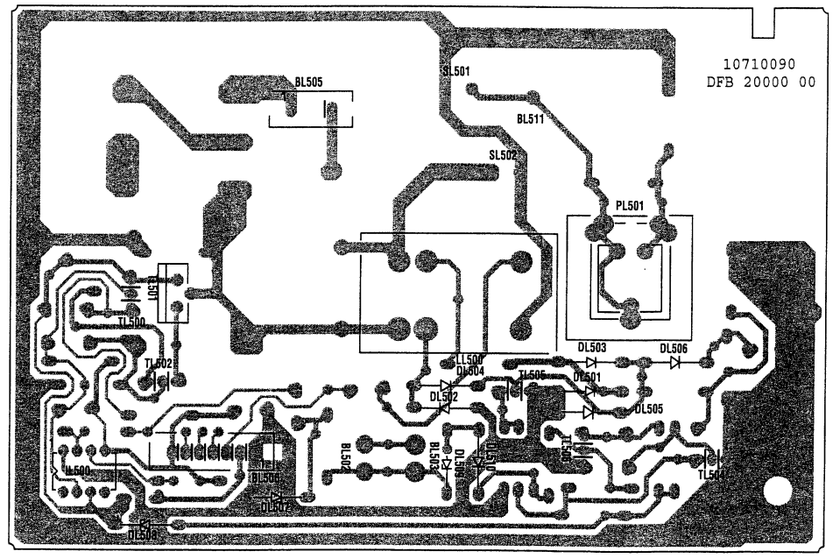
DYNAMIC FOCUS MODULE - MODULE FOCUS DYNAMIQUE - DYNAMIKFOKUS BAUSTEIN - MODULO FUOCO DINAMICO - MÓDULO FOCO DINÁMICO
XFT TUBES 36"V2 - DFB 21000.00



COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES

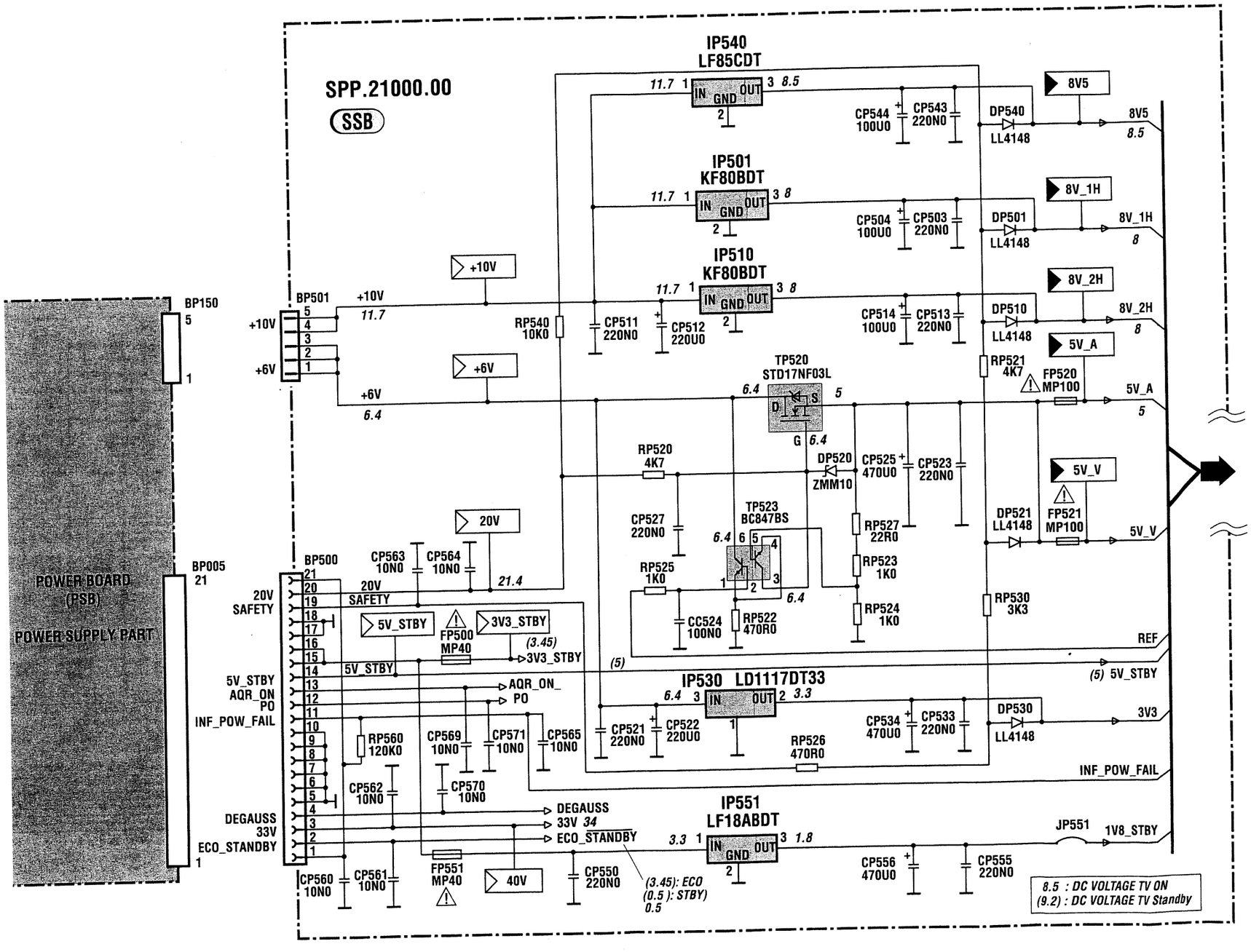


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE -
LATO SALDATURE - LADO SOLDADURAS

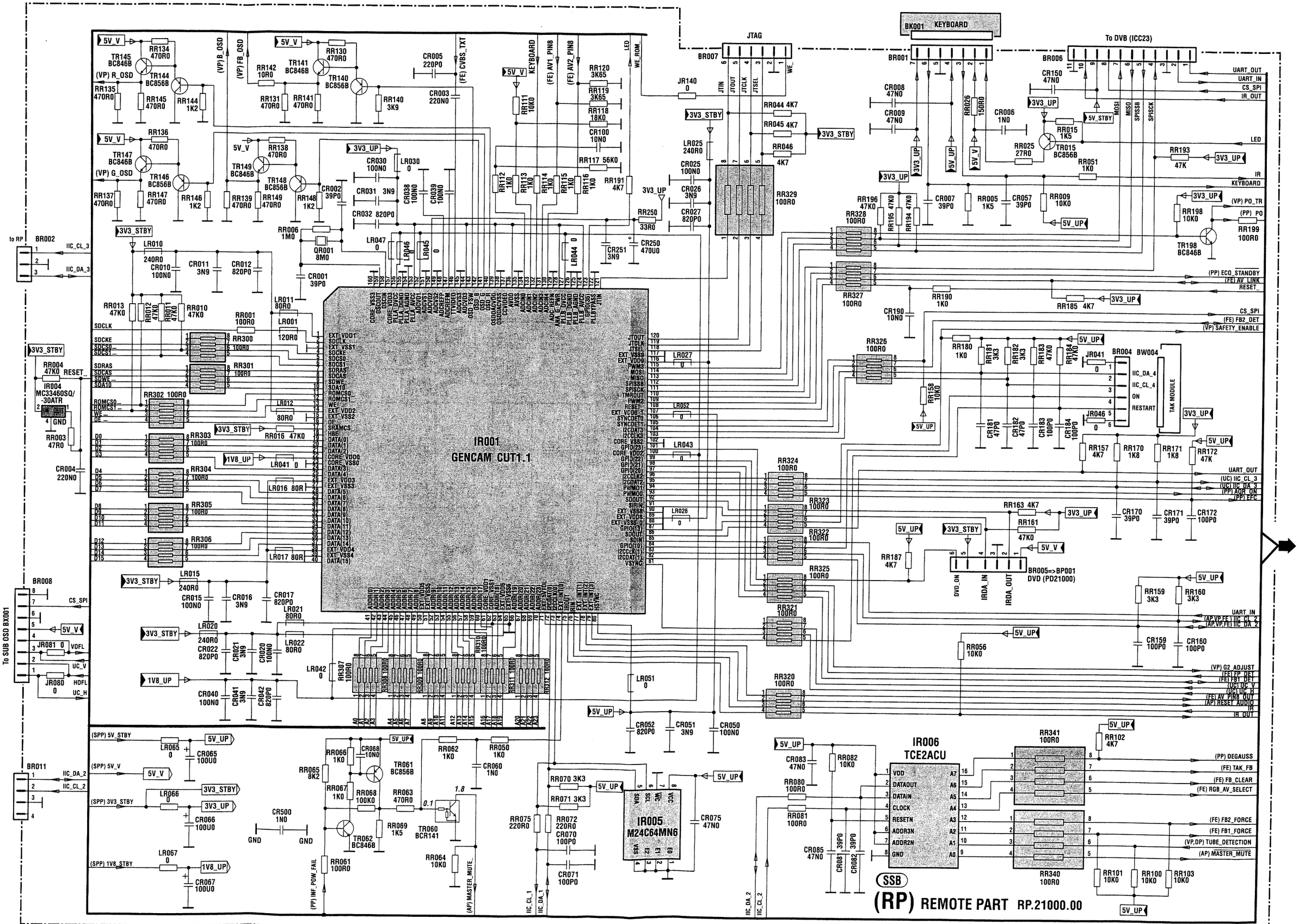


SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

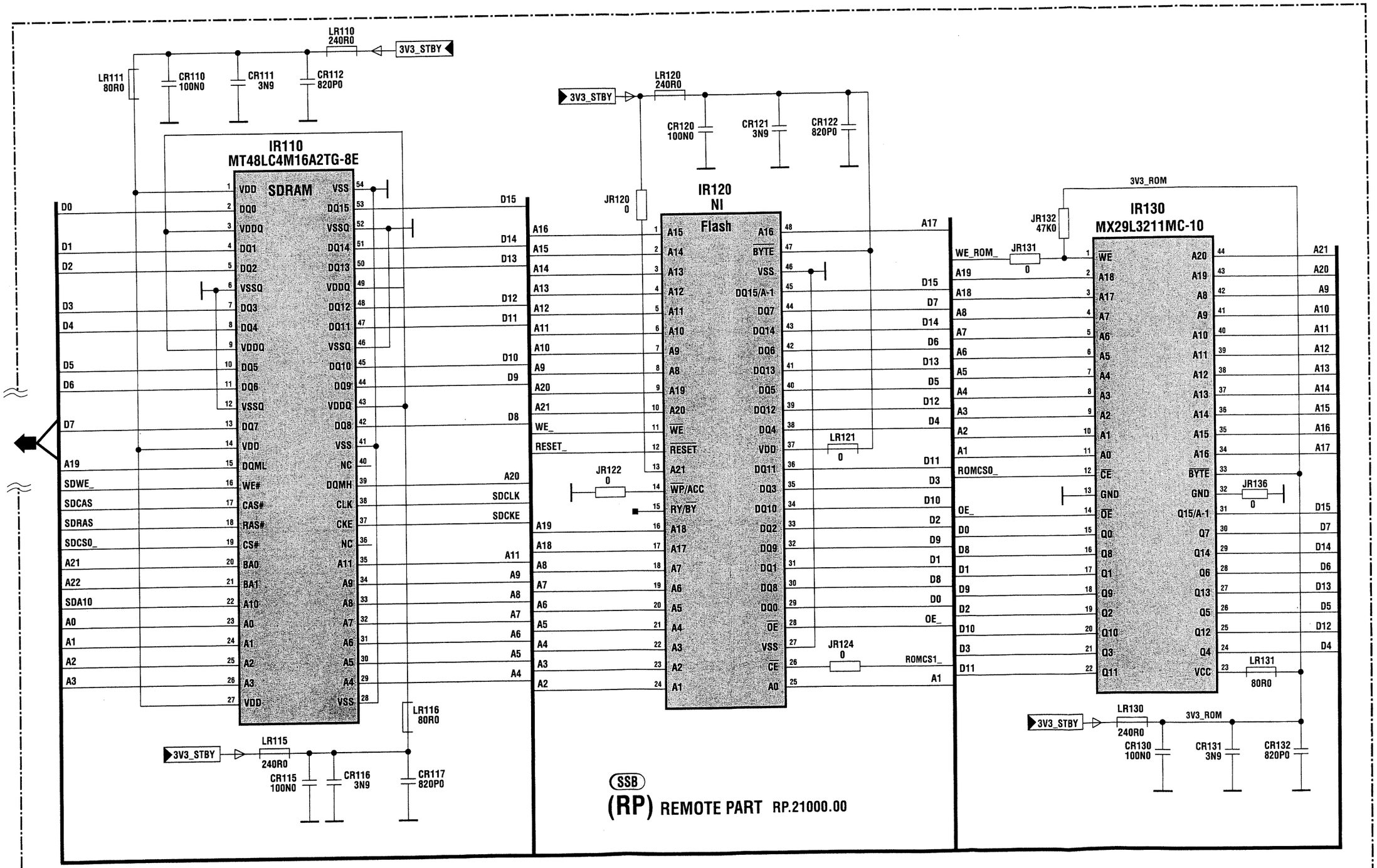
SIGNAL BOARD POWER PART - PARTIE ALIMENTATION DE LA PLATINE PETITES SIGNAUX - BETRIEBSSPANNUNGSERZEUGUNG SIGNAL PLATINE - PARTE ALIMENTAZIOEN PIASTRA SEGNALI - PARTE ALIMENTACIÓN PLACA SEÑAL



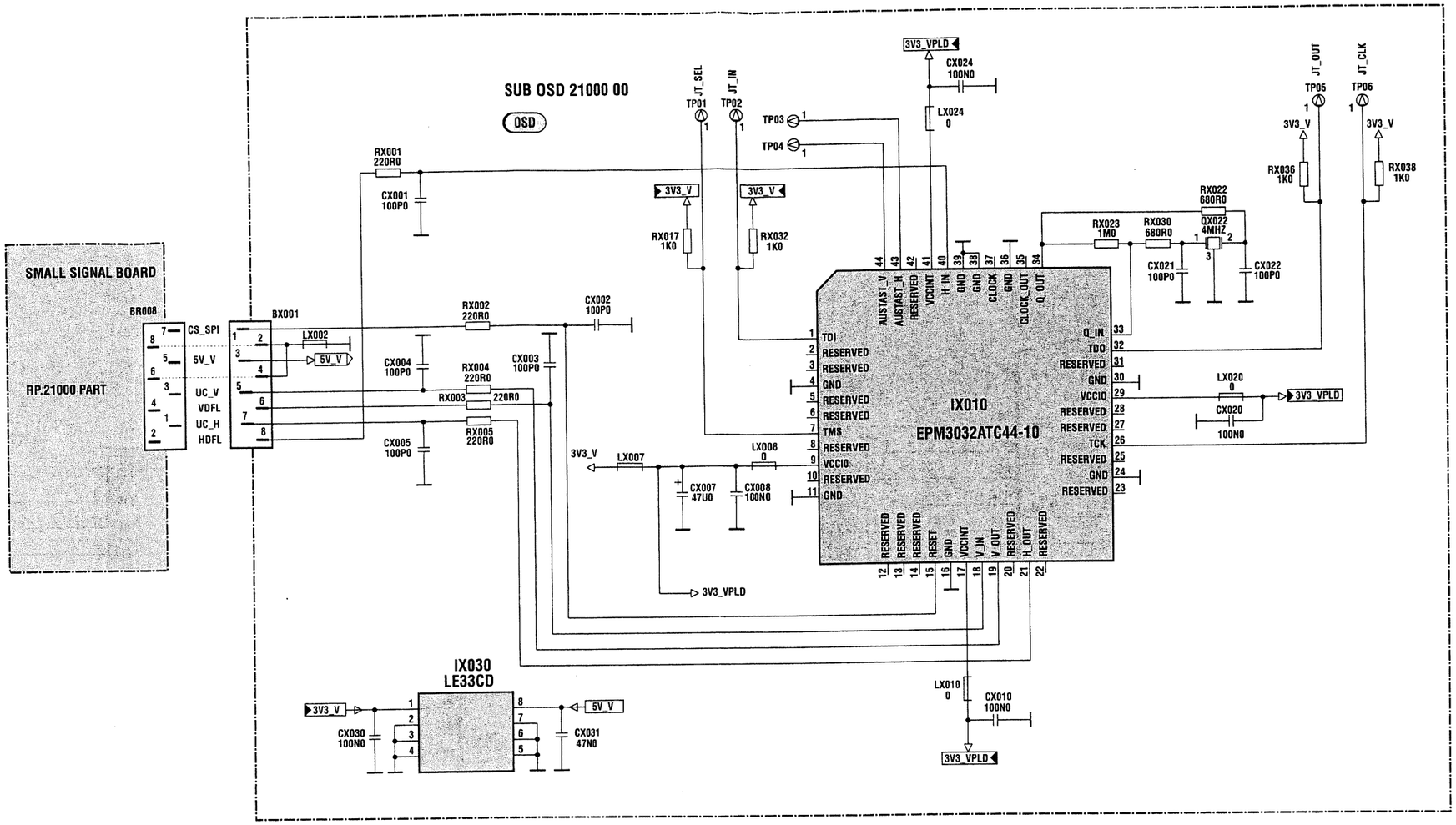
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
REMOTE / MICROCONTROLLER - GESTION / MICROCONTROLEUR - FERNBEDIENUNGS- UND MICROCONTROLLERSTUFEN - MICROPROCESSORE - REMOTO / MICROCONTROLADOR

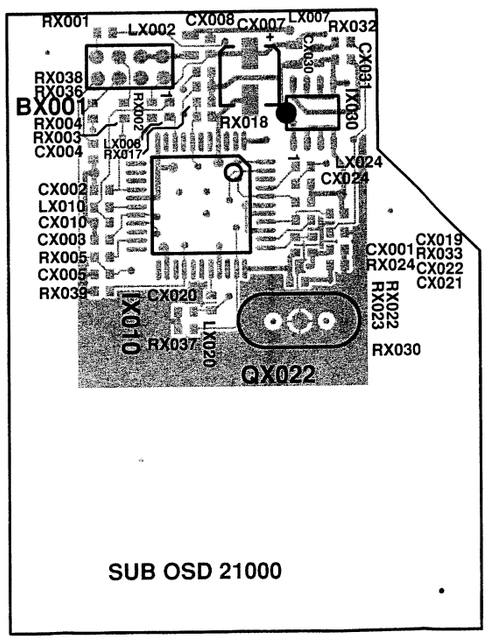


SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
SDRAM - FLASH MEMORY

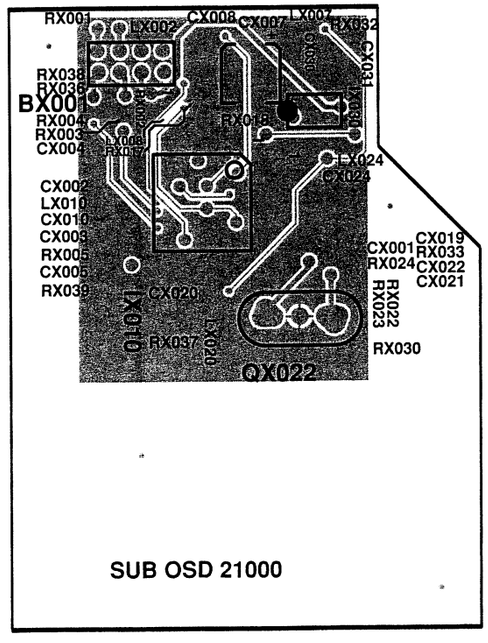


SUB OSD MODULE - MODULE SUB OSD - OSD SUBMODUL - MODULO SUB OSD - MÓDULO SUB OSD





SUB OSD 21000

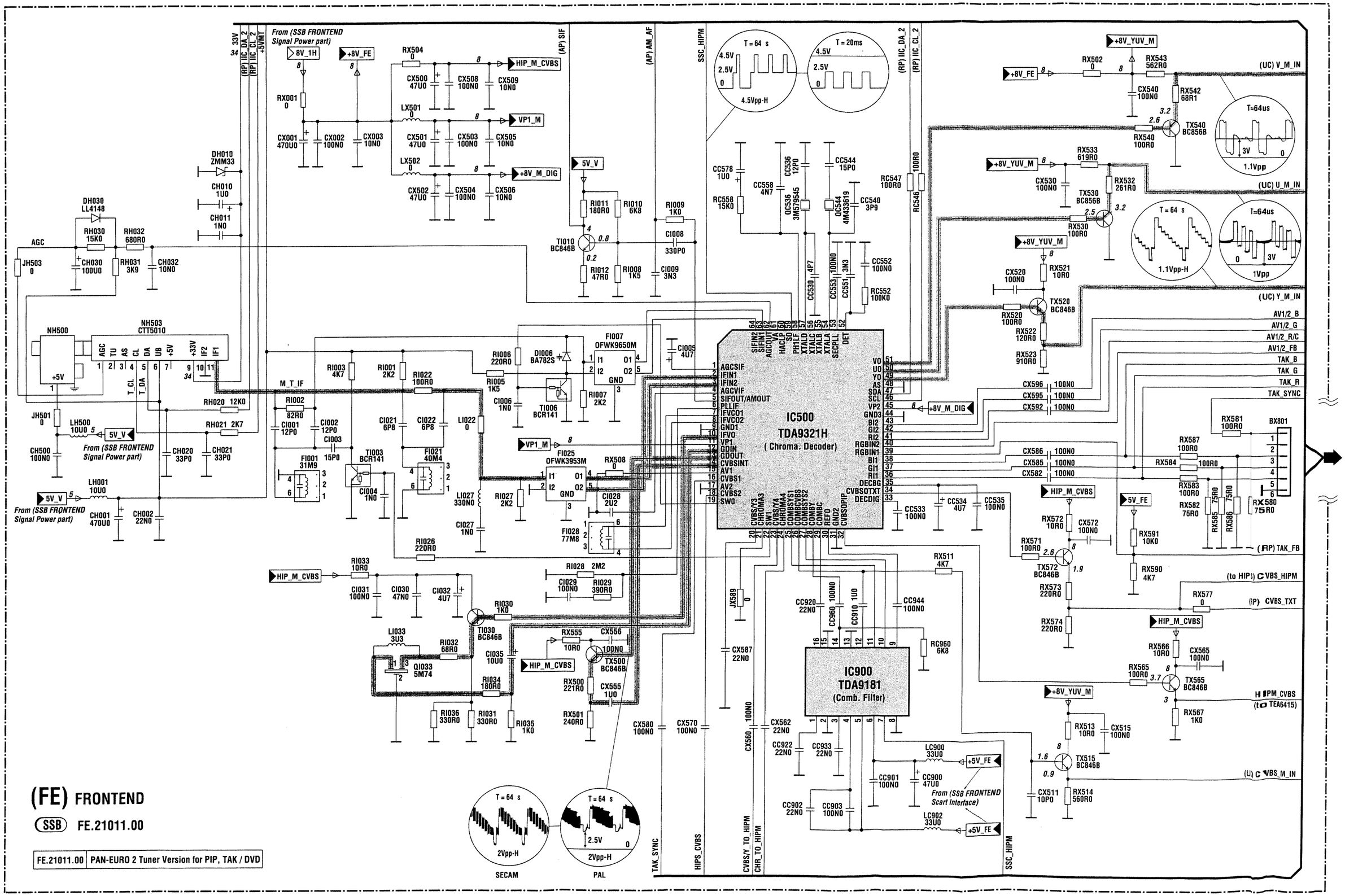


SUB OSD 21000

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

2 TUNER VERSION FRONTEND PART (1/4) - EINGANGSTUFEN 2 TUNER VERSION (1/4) - 2 VERSIONE TUNER PARTE FRONTEND (1/4) - PARTE FRONTEND VERSIÓN DE 2 SINTONIZADORES (1/4)

MAIN RF/FI / VIDEO SIGNAL PROCESSING - HF/FI TUNER PRINCIPAL / TRAITEMENT VIDEO - HAUPTTUNER HF/ZF UND VIDEOSIGNALVERARBEITUNG - MAINRF/FI/ ELABORAZIONE SEGNALE VIDEO - RF/FI PRINCIPAL / PROCESAMIENTO SEÑAL VIDEO



(FE) FRONTEND

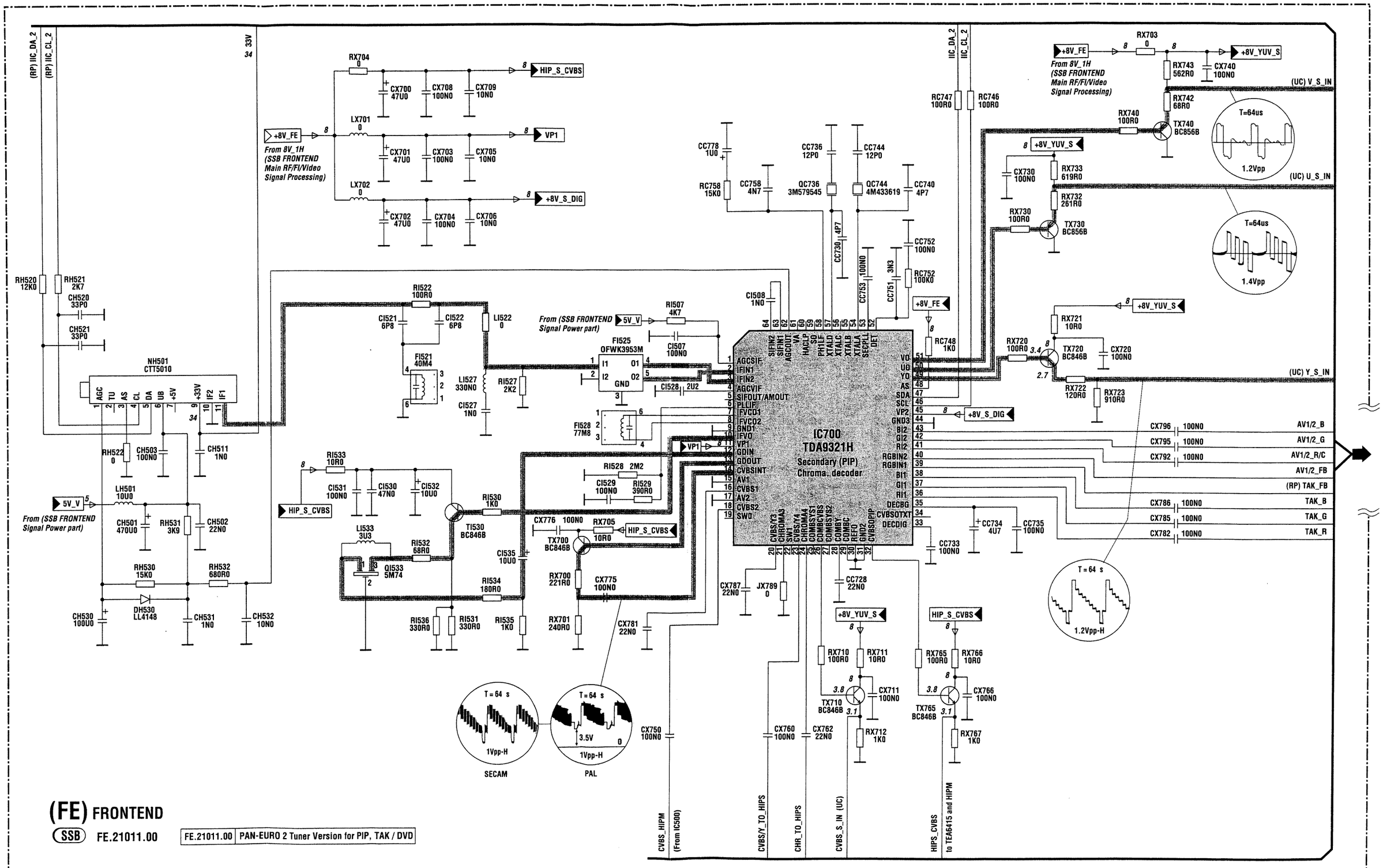
(SSB) FE.21011.00

FE.21011.00	PAN-EURO 2 Tuner Version for PIP, TAK / DVD

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

2 TUNER VERSION FRONTEND PART (2/4) - EINGANGSSTUFEN 2 TUNER VERSION (2/4) -2 VERSIONE TUNER PARTE FRONTEND (2/4) - PARTE FRONTEND VERSIÓN DE 2 SINTONIZADORES (2/4)

PIP RF/FI / VIDEO SIGNAL PROCESSING - HF/FI PIP / TRAITEMENT VIDEO - PIP HF/ZF UND VIDEISIGNALVERARBEITUNG - PIP RF/FI / ELABORAZIONE SEGNALE VIDEO - PIP RF/FI / PROCESAMIENTO SEÑAL VIDEO



(FE) FRONTEND

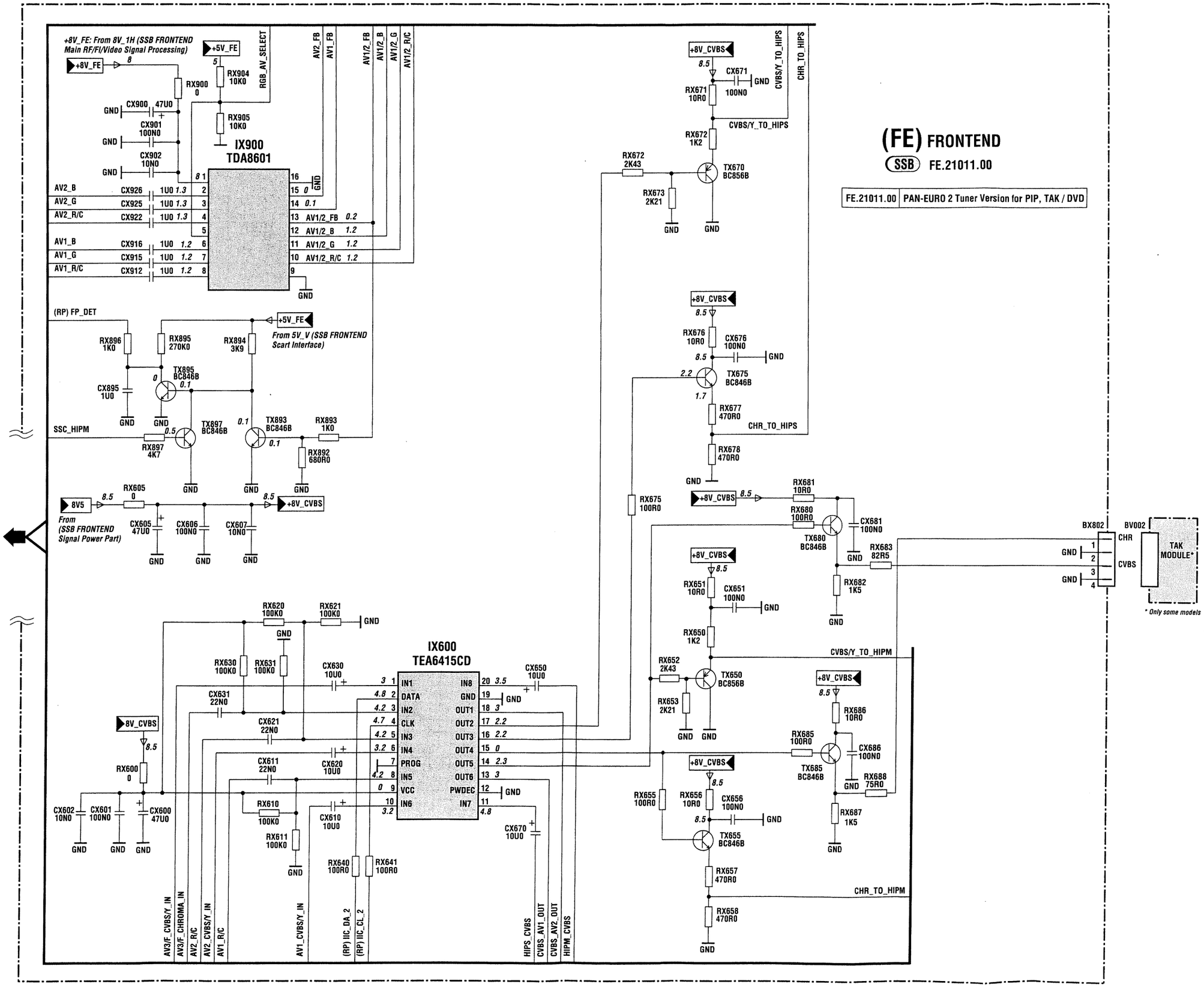
SSB FE.21011.00

FE.21011.00	PAN-EURO 2 Tuner Version for PIP, TAK / DVD

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

2 TUNER VERSION FRONTEND PART (3/4) - EINGANGSSTUFEN 2 TUNER VERSION (3/4) - 2 VERSIONE TUNER PARTE FRONTEND (3/4) - PARTE FRONTEND VERSIÓN DE 2 SINTONIZADORES (3/4)

VIDEO SWITCH / RGB SWITCH - COMMUTATION VIDEO/COMMUTATION RGB - VIDEO UND RGB UMSCHALTUNG - COMMUAZIONE VIDEO / COMMUTAZIONE RGB - CONMUTACION VIDEO / CONMUTACION RGB



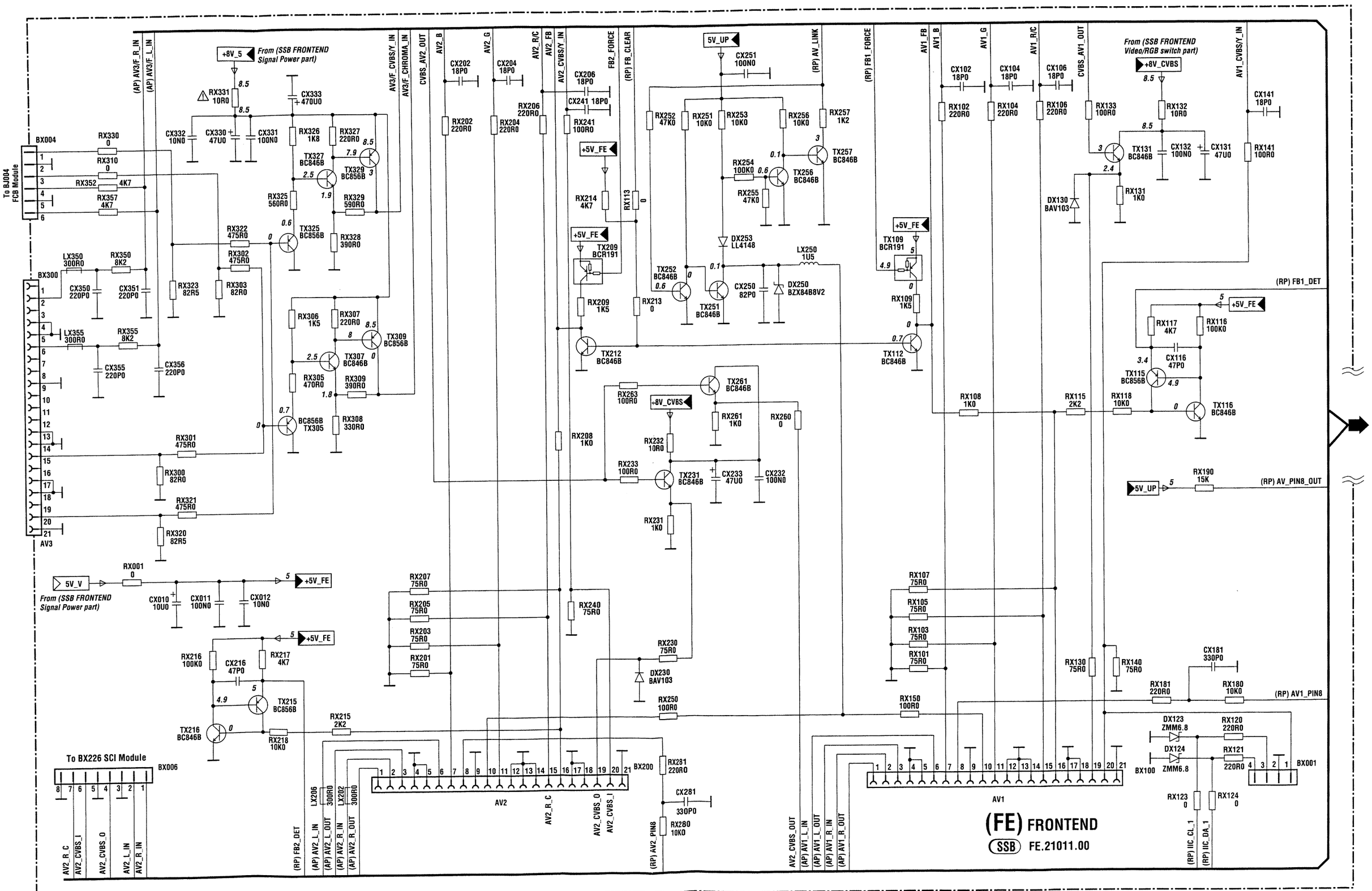
(FE) FRONTEND

(SSB) FE.21011.00

FE.21011.00	PAN-EURO 2 Tuner Version for PIP, TAK / DVD

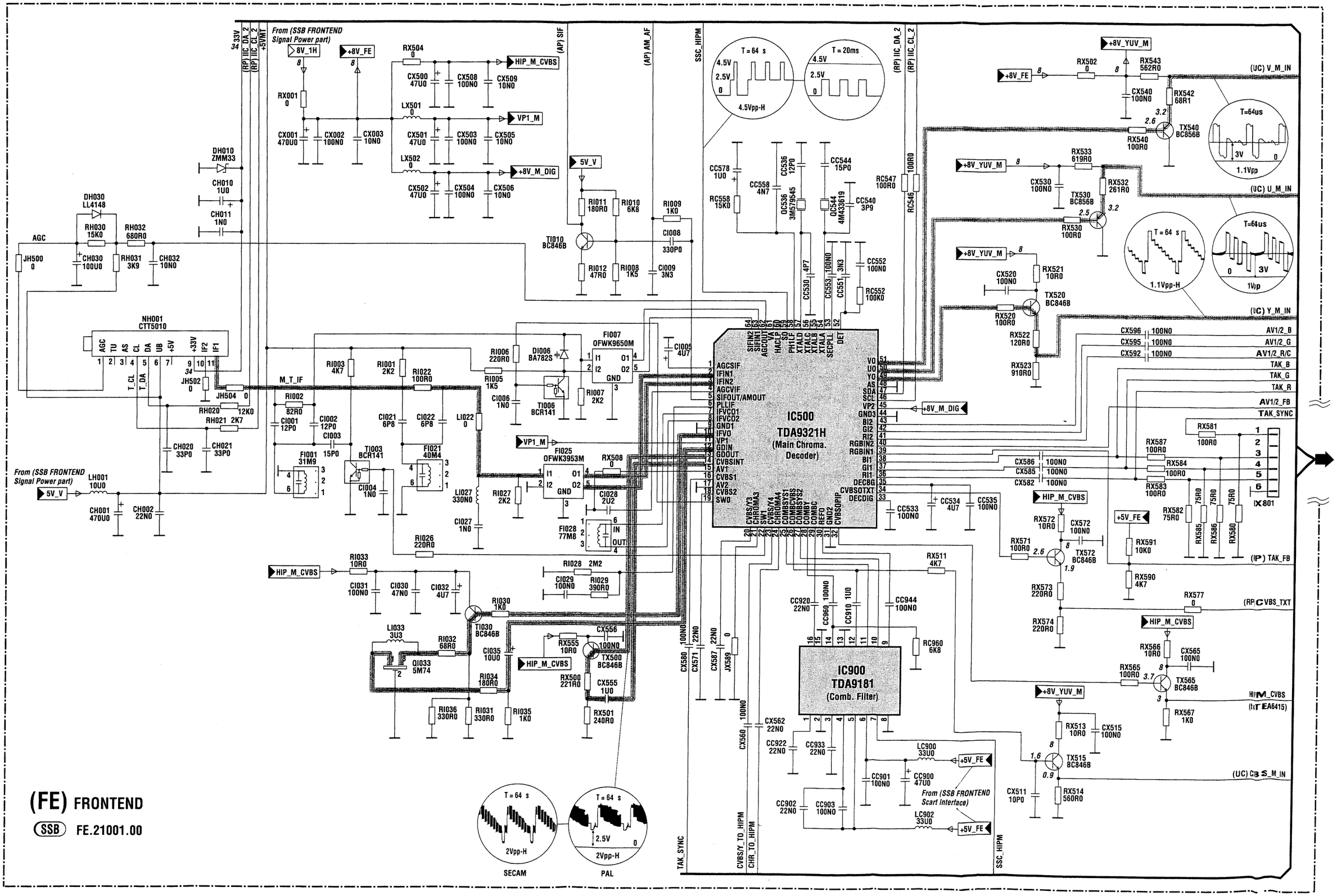
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
2 TUNER VERSION FRONTEND PART (4/4) - EINGANGSSTUFEN 2TUNER VERSION (4/4) - 2 VERSIONE TUNER PARTE FRONTEND (4/4) - PARTE FRONTEND VERSIÓN DE 2 SINTONIZADORES (4/4)

SCART INTERFACE - INTERFACE PERITELEVISION - SCART INTERFACE - PRESA PERITEL- EUROCONECTOR



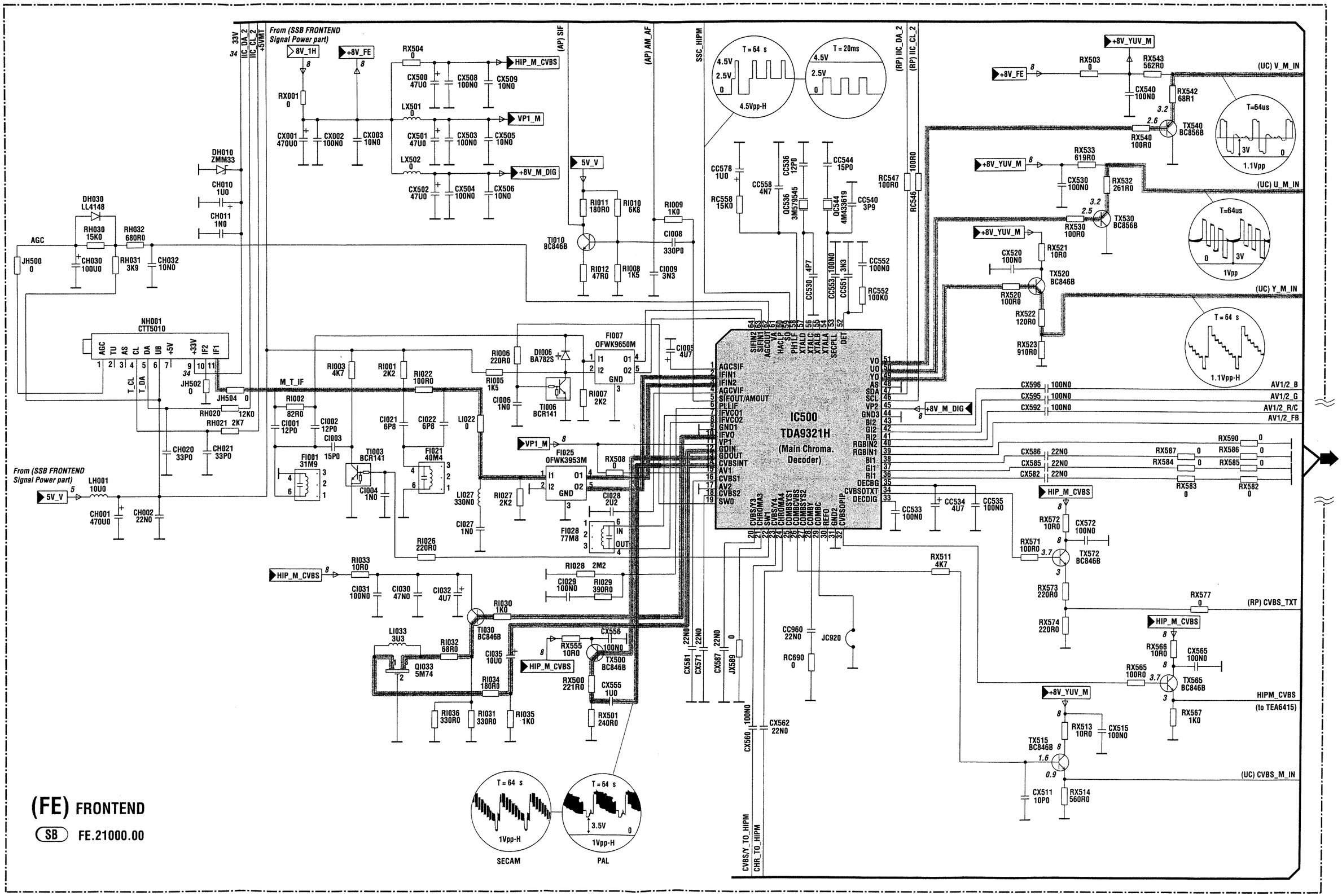
1 TUNER VERSION WITH COMB FILTER FRONTEND PART (1/3) - PARTIE FRONTEND VERSION 1 TUNER AVEC FILTRE EN PEIGNE (1/3) - EINGANGSSTUFEN 1 TUNER VERSION MIT KAMMFILTER (1/3) - 1 VERSIONE TUNER CON COMB FILTER FRONTEND PART (1/3) - PARTE FRONTEND VERSIÓN DE 1 SINTONIZADOR CON COMB FILTER (1/3)

RF/FI / VIDEO SIGNAL PROCESSING - HF/FI / TRAITEMENT VIDEO - HAUPTTUNER HF/ZF UND VIDEOSIGNALVERARBEITUNG - RF/FI/ ELABORAZIONE SEGNALE VIDEO - RF/FI / PROCESAMIENTO SEÑAL VIDEO



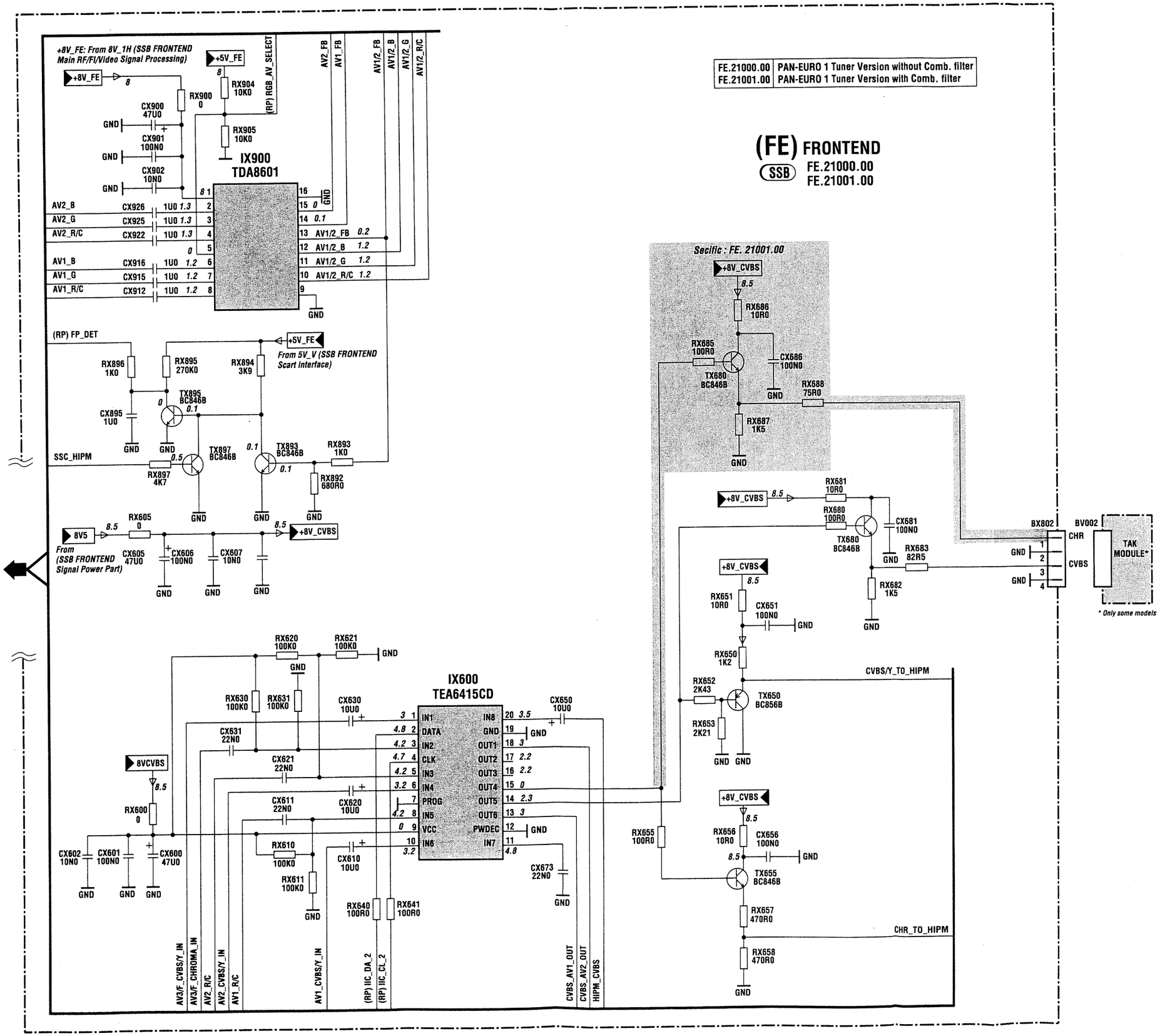
1 TUNER VERSION WITHOUT COMB FILTER FRONTEND PART (1/3) - PARTIE FRONTEND VERSION 1 TUNER SANS FILTRE EN PEIGNE (1/3) - EINGANGSSTUFEN 1 TUNER VERSION OHNE KAMMFILTER - 1 VERSIONE TUNER SENZA COMB FILTER FRONTEND PART (1/3) - PARTE FRONTEND VERSIÓN 1 SINTONIZADOR SIN COMB FILTER (1/3)

RF/FI / VIDEO SIGNAL PROCESSING - HF/FI / TRAITEMENT VIDEO - HAUPTTUNER HF/ZF UND VIDEOSIGNALVERARBEITUNG - RF/FI/ ELABORAZIONE SEGNALE VIDEO - RF/FI / PROCESAMIENTO SEÑAL VIDEO



SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
1 TUNER FRONTEND PART (2/3) - EINGANGSSTUFEN 2TUNER VERSION (2/3) - 1 VERSIONE TUNER PARTE FRONTEND (2/3) - PARTE FRONTEND VERSIÓN 1 SINTONIZADOR (2/3)

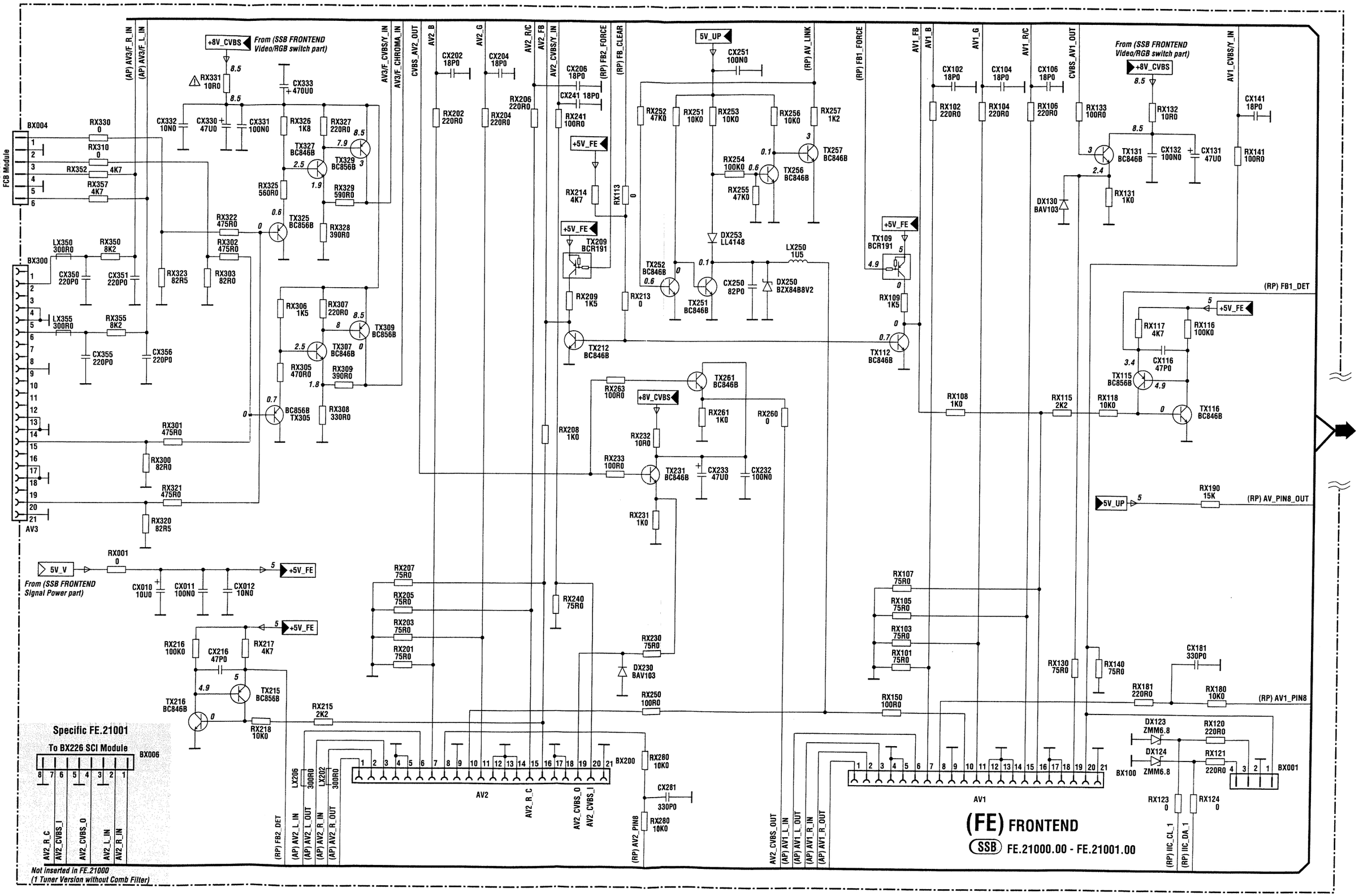
VIDEO SWITCH / RGB SWITCH - COMMUTATION VIDEO/COMMUTATION RGB - VIDEO UND RGB UMSCHALTUNG - COMMUAZIONE VIDEO / COMMUTAZIONE RGB - CONMUTACION VIDEO / CONMUTACION RGB



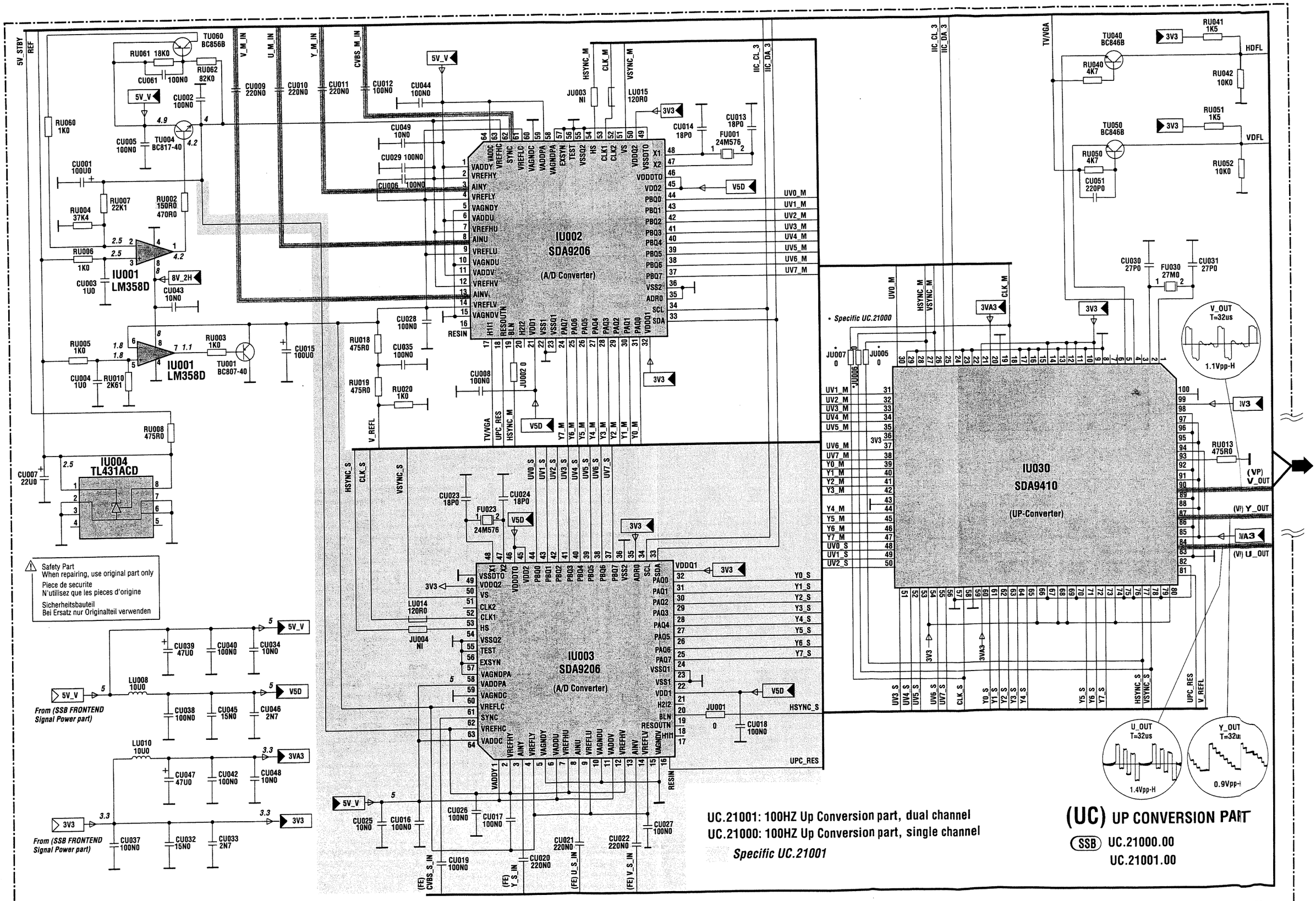
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

1 TUNER FRONTEND PART (3/3) - EINGANGSSTUFEN 2TUNER VERSION (3/3) - 1 VERSIONE TUNER PARTE FRONTEND (3/3) - PARTE FRONTEND VERSIÓN 1 SINTONIZADOR (3/3)

SCART INTERFACE - INTERFACE PERITELEVISION - SCART INTERFACE - PRESA PERITEL- EUROCONECTOR



SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
UPCONVERTER PART - PARTIE CONVERSION - UPCONVERTER STUFEN - CIRCUITO UPCONVERTER - SUPRACONVERSOR

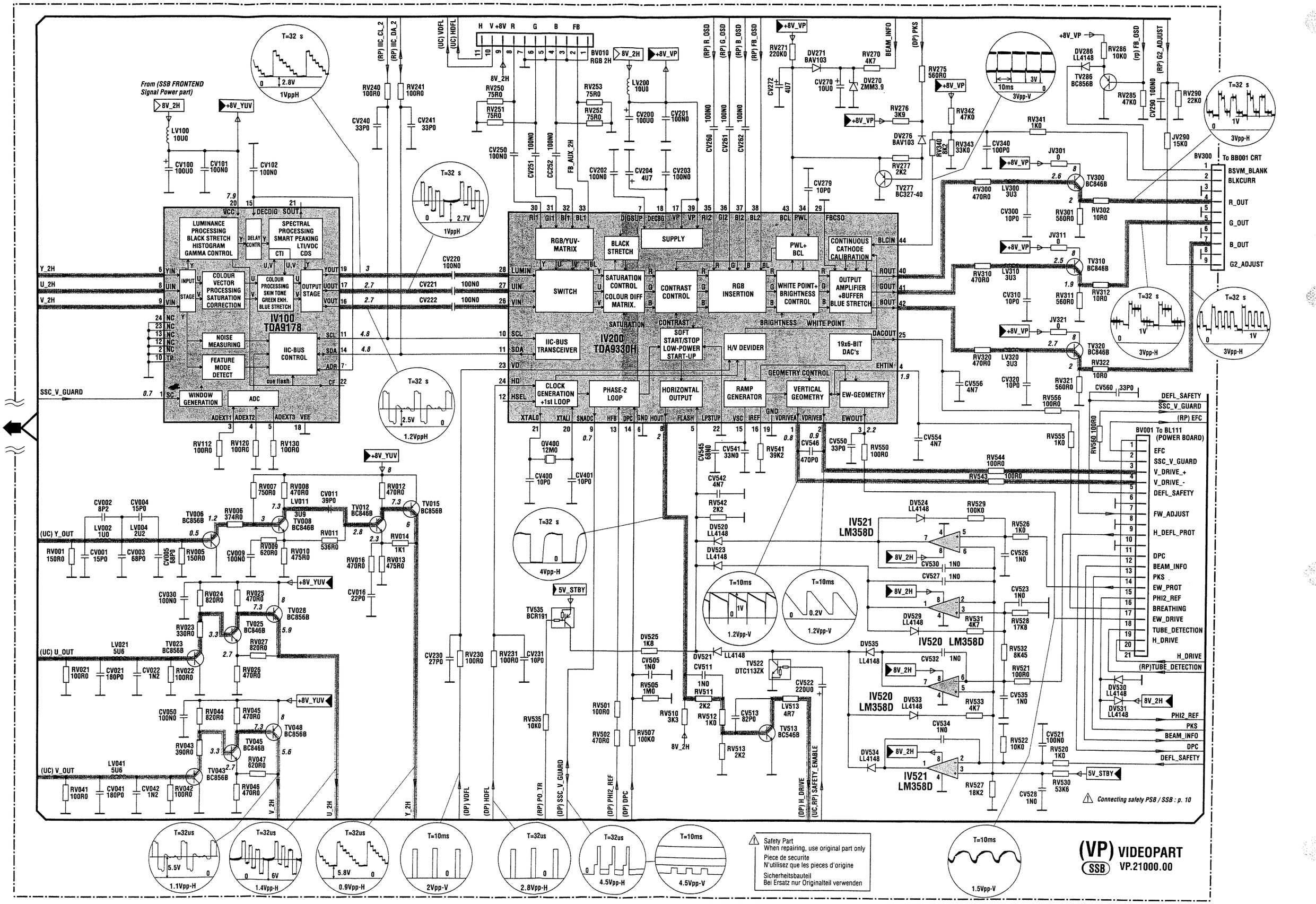


UC.21001: 100HZ Up Conversion part, dual channel
UC.21000: 100HZ Up Conversion part, single channel
Specific UC.21001

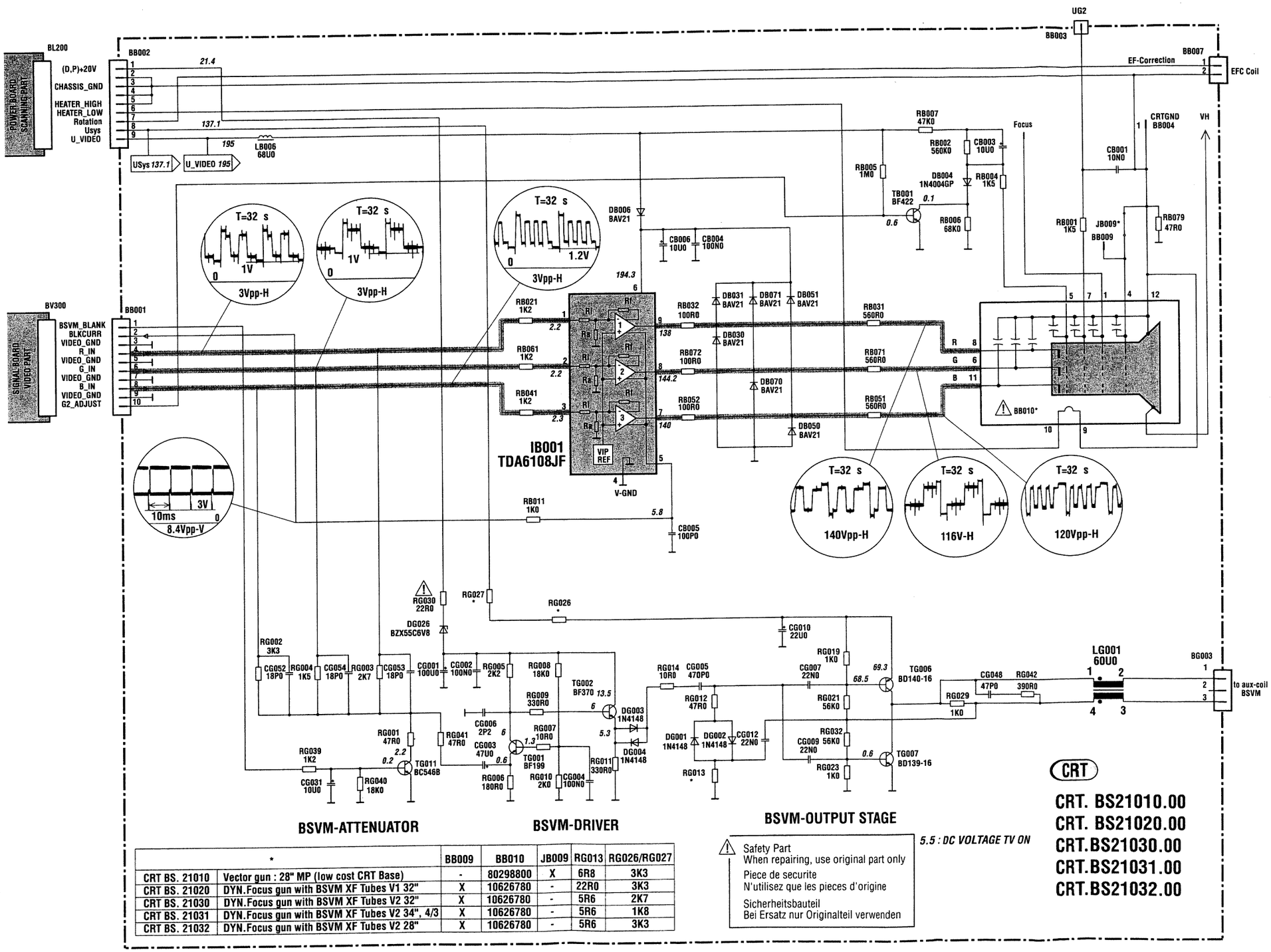
(UC) UP CONVERSION PART

(SSB) UC.21000.00
UC.21001.00

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
VIDEO PART - PARTIE VIDEO - VIDEO-SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMENTO VIDEO

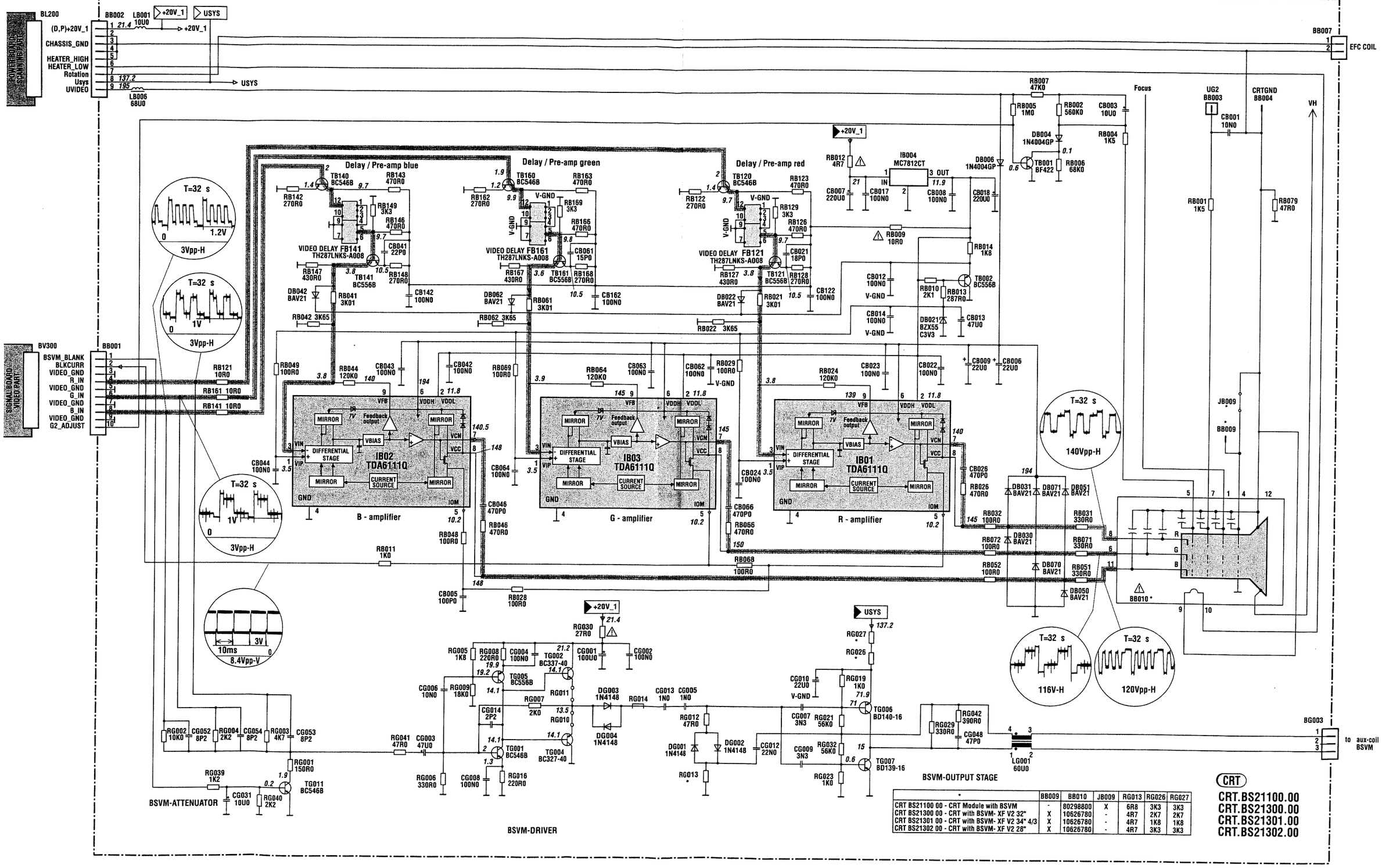


VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
CRT.BS21010.00 - CRT.BS21020.00 - CRT.BS21030.00 - CRT.BS21031.00 - CRT.BS21032.00



*		BB009	BB010	JB009	RG013	RG026/RG027
CRT BS. 21010	Vector gun : 28" MP (low cost CRT Base)	-	80298800	X	6R8	3K3
CRT BS. 21020	DYN.Focus gun with BSVM XF Tubes V1 32"	X	10626780	-	22R0	3K3
CRT BS. 21030	DYN.Focus gun with BSVM XF Tubes V2 32"	X	10626780	-	5R6	2K7
CRT BS. 21031	DYN.Focus gun with BSVM XF Tubes V2 34", 4/3	X	10626780	-	5R6	1K8
CRT BS. 21032	DYN.Focus gun with BSVM XF Tubes V2 28"	X	10626780	-	5R6	3K3

VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
CRT.BS21100.00 - CRT.BS21300.00 - CRT.BS21301.00 - CRT.BS21302.00



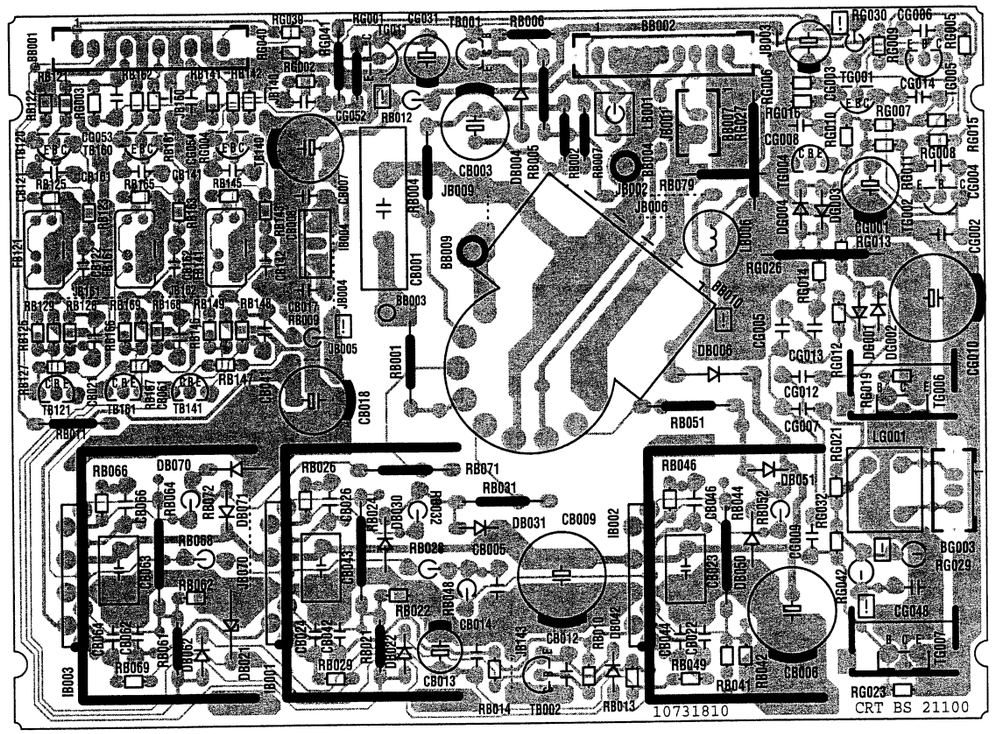
*	BB009	BB010	JB009	RG013	RG026	RG027
CRT BS21100 00 - CRT Module with BSVM	-	80298800	X	6R8	3K3	3K3
CRT BS21300 00 - CRT with BSVM- XF V2 32"	X	10626780	-	4R7	2K7	2K7
CRT BS21301 00 - CRT with BSVM- XF V2 34" 4/3	X	10626780	-	4R7	1K8	1K8
CRT BS21302 00 - CRT with BSVM- XF V2 28"	X	10626780	-	4R7	3K3	3K3

CRT
CRT.BS21100.00
CRT.BS21300.00
CRT.BS21301.00
CRT.BS21302.00

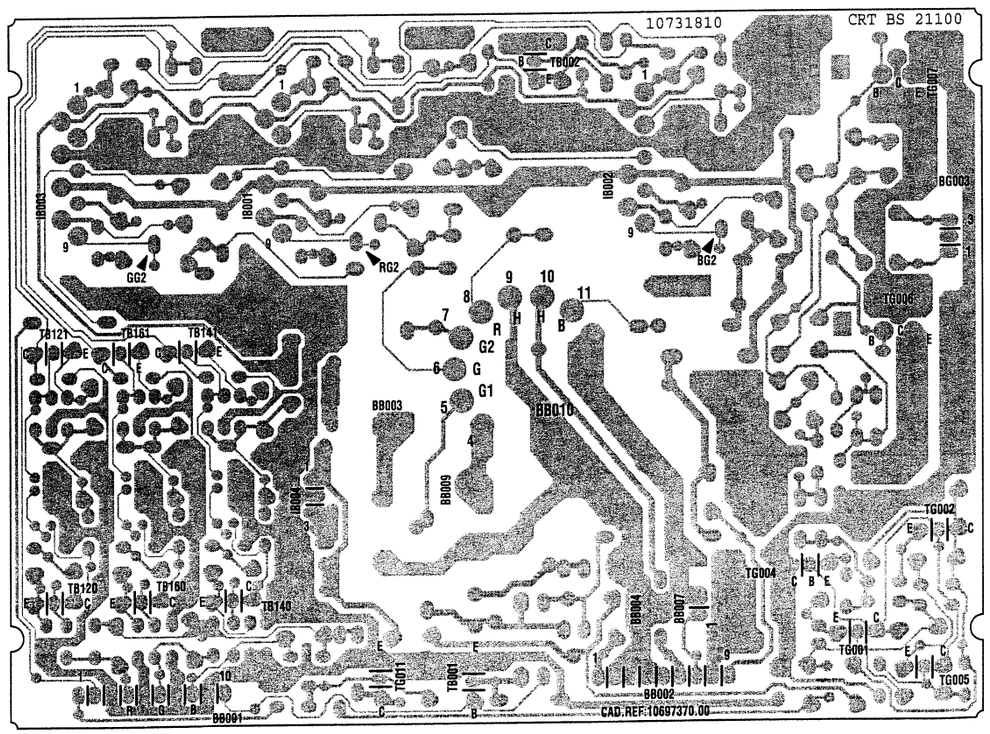
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

CRT.BS21100.00 - CRT.BS21300.00 - CRT.BS21301.00 - CRT.BS21302.00

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES

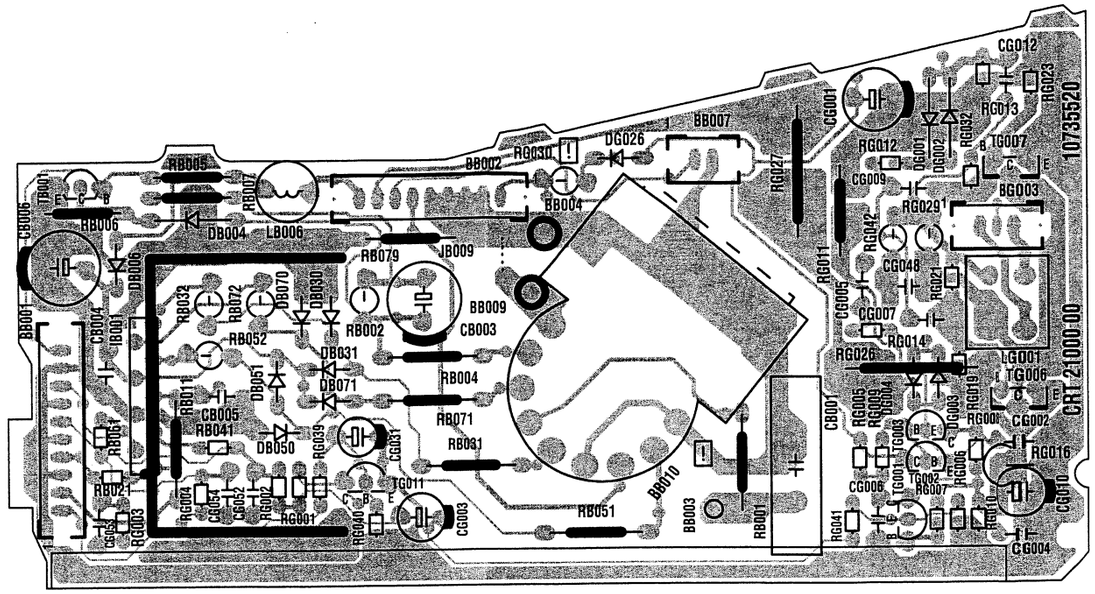


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

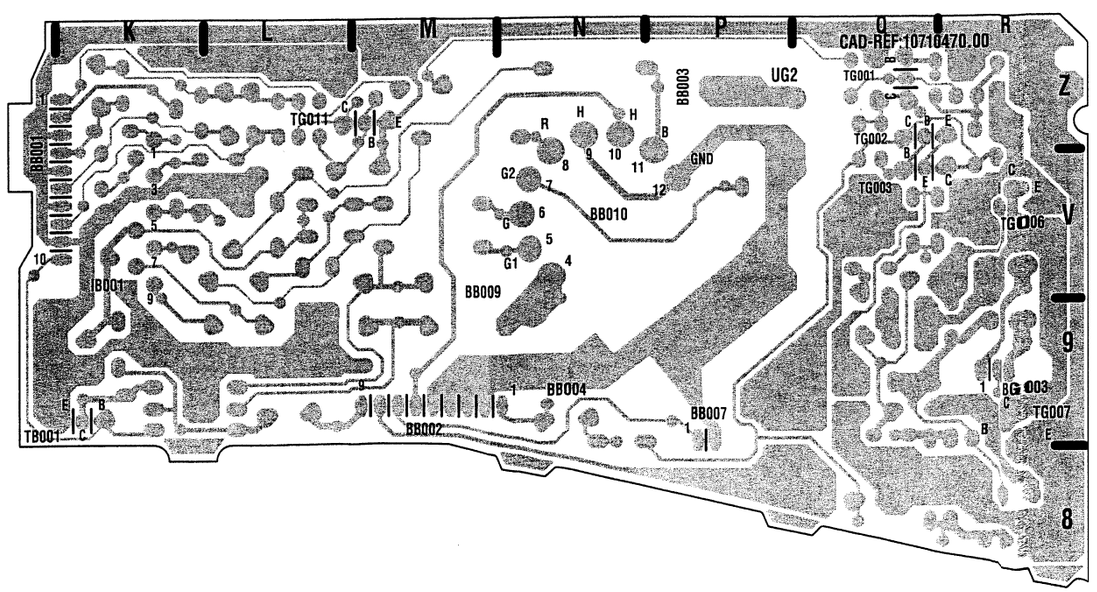


CRT.BS21010.00 - CRT.BS21020.00 - CRT.BS21030.00 - CRT.BS21031.00 - CRT.BS21032.00

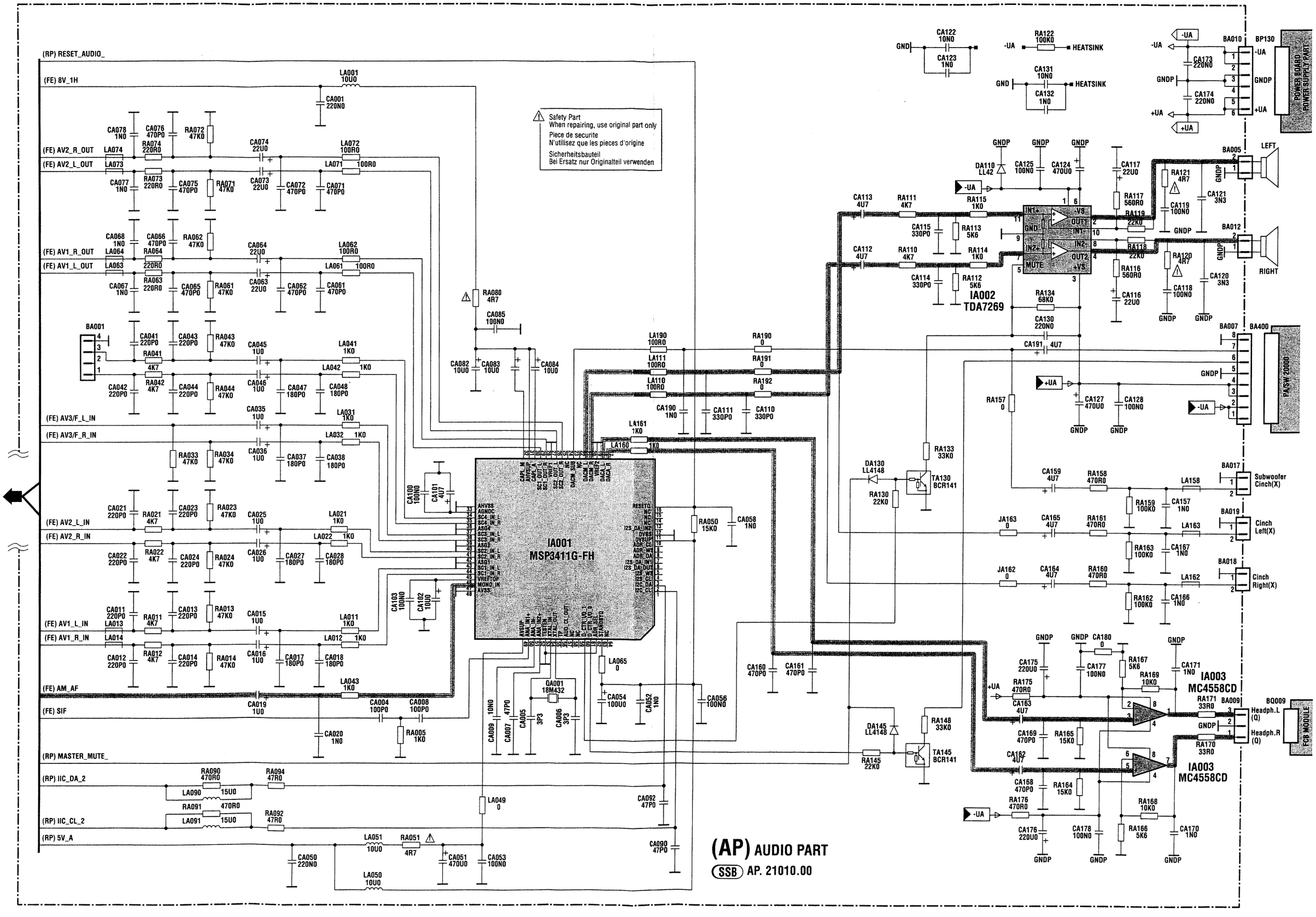
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



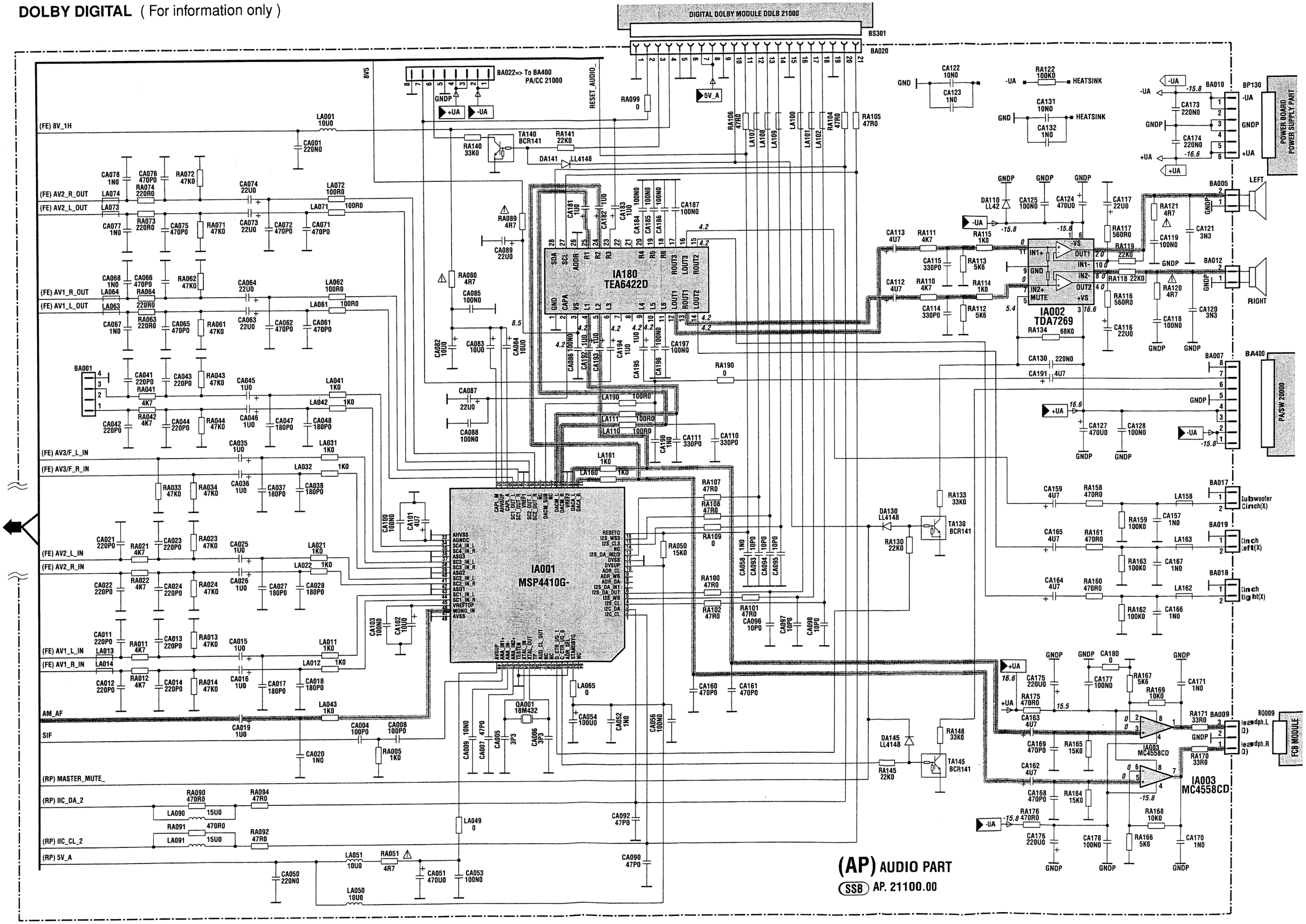
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
AUDIO PART - PARTIE AUDIO - AUDIOSTUFEN - CIRCUITO AUDIO - AUDIO
STEREO / NICAM / VIRTUAL DOLBY

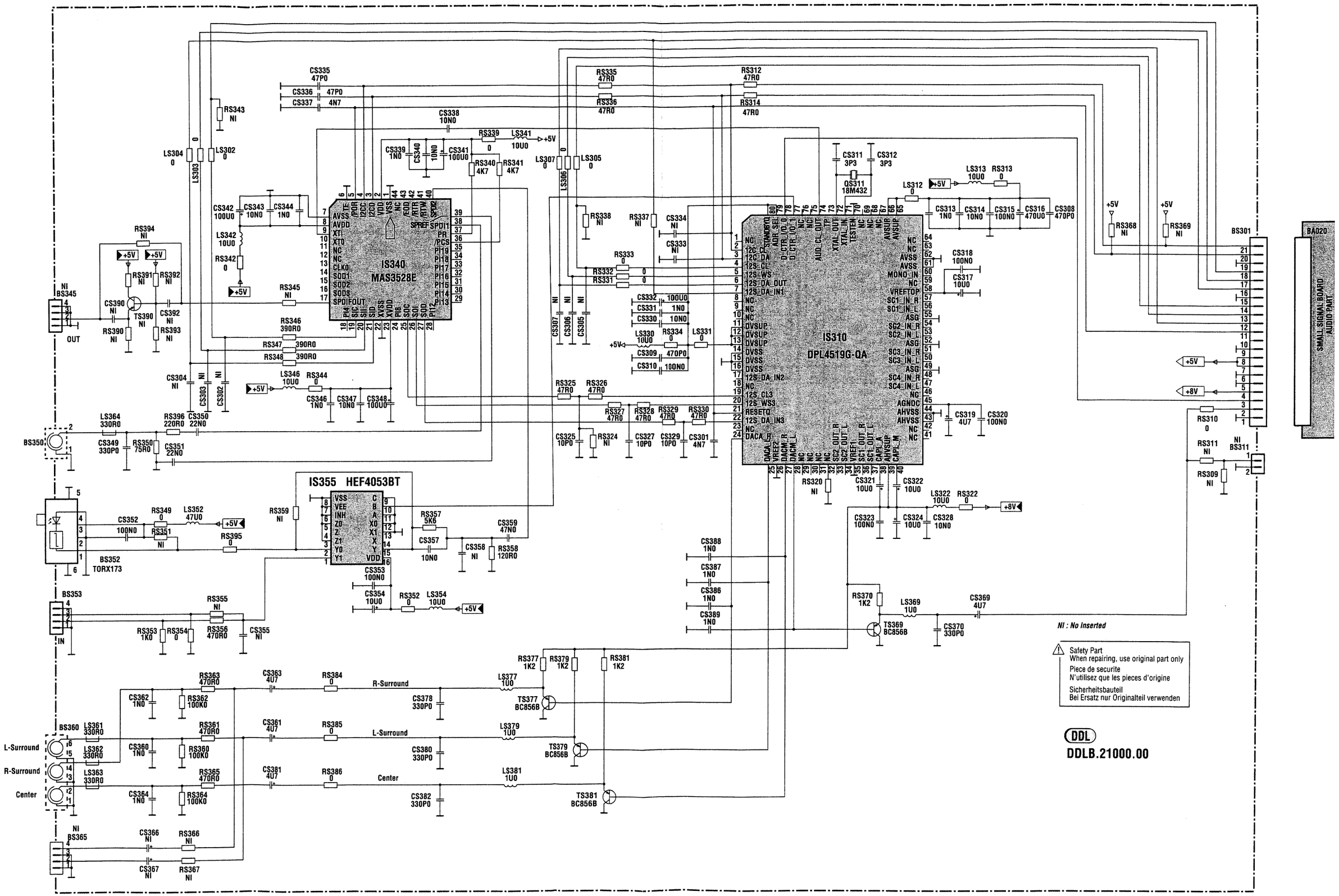


SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL
AUDIO PART - PARTIE AUDIO - AUDIOSTUFEN - CIRCUITO AUDIO - AUDIO
DOLBY DIGITAL (For information only)

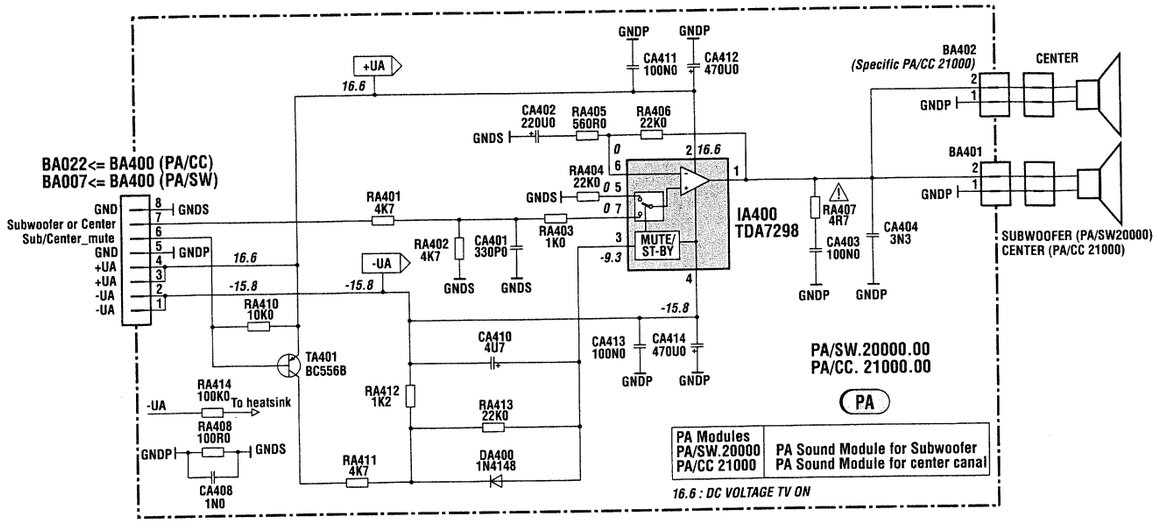


AUDIO SIGNAL DOLBY DIGITAL MODULE - MODULE AUDIO DOLBY DIGITAL - DOLBY DIGITAL MODUL - MODULO AUDIO DOLBY DIGITAL - MODULO AUDIO DOLBY DIGITAL

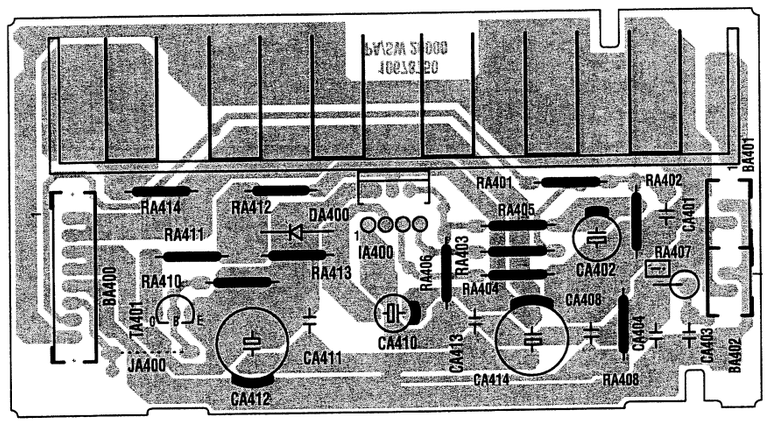
(For information only)



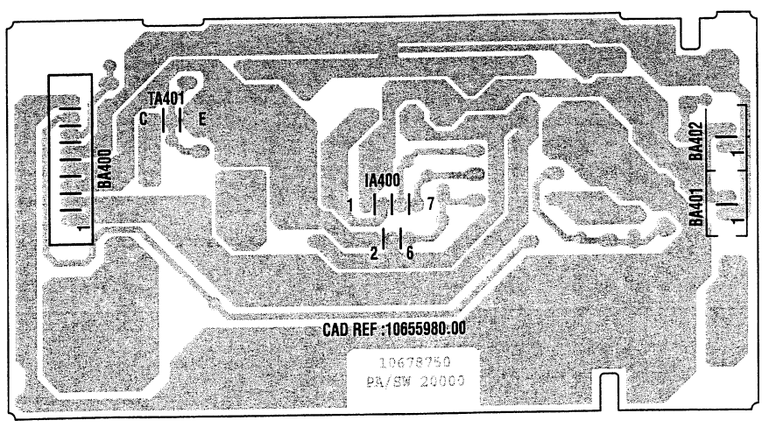
SUBWOOFER AMPLIFIER OR CENTER AMPLIFIER FOR DIGITAL DOLBY - AMPLIFICATEUR SUBWOOFER OU AMPLIFICATEUR CENTRAL POUR DOLBY DIGITAL- SUBWOOFER VERSTÄRKER -CENTRAL VERSTÄRKER - AMPLIFICATORE SUBWOOFER O AMPLIFICATORE CENTRALE PER DIGITAL DOLBY AMPLIFICADOR SUBWOOFER O AMPLIFICADOR CENTRAL PARA DOLBY DIGITAL



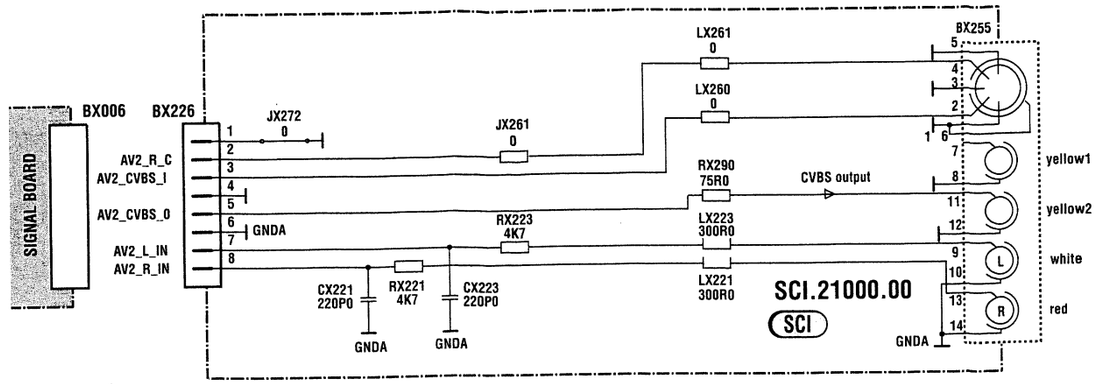
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



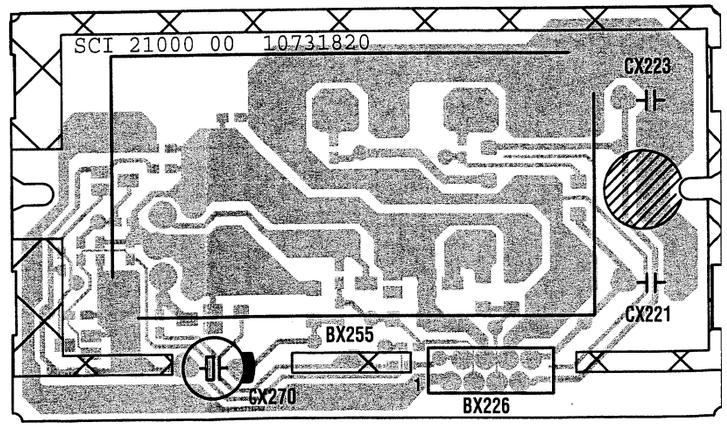
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



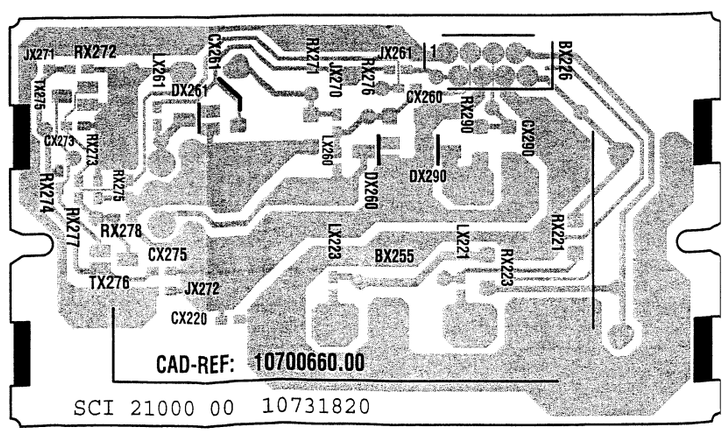
SCART INTERFACE MODULE - MODULE INTERFACE PERITELEVISION - SCART INTERFACE - MODULO PRESA PERITEL - MODULO EUROTOMA

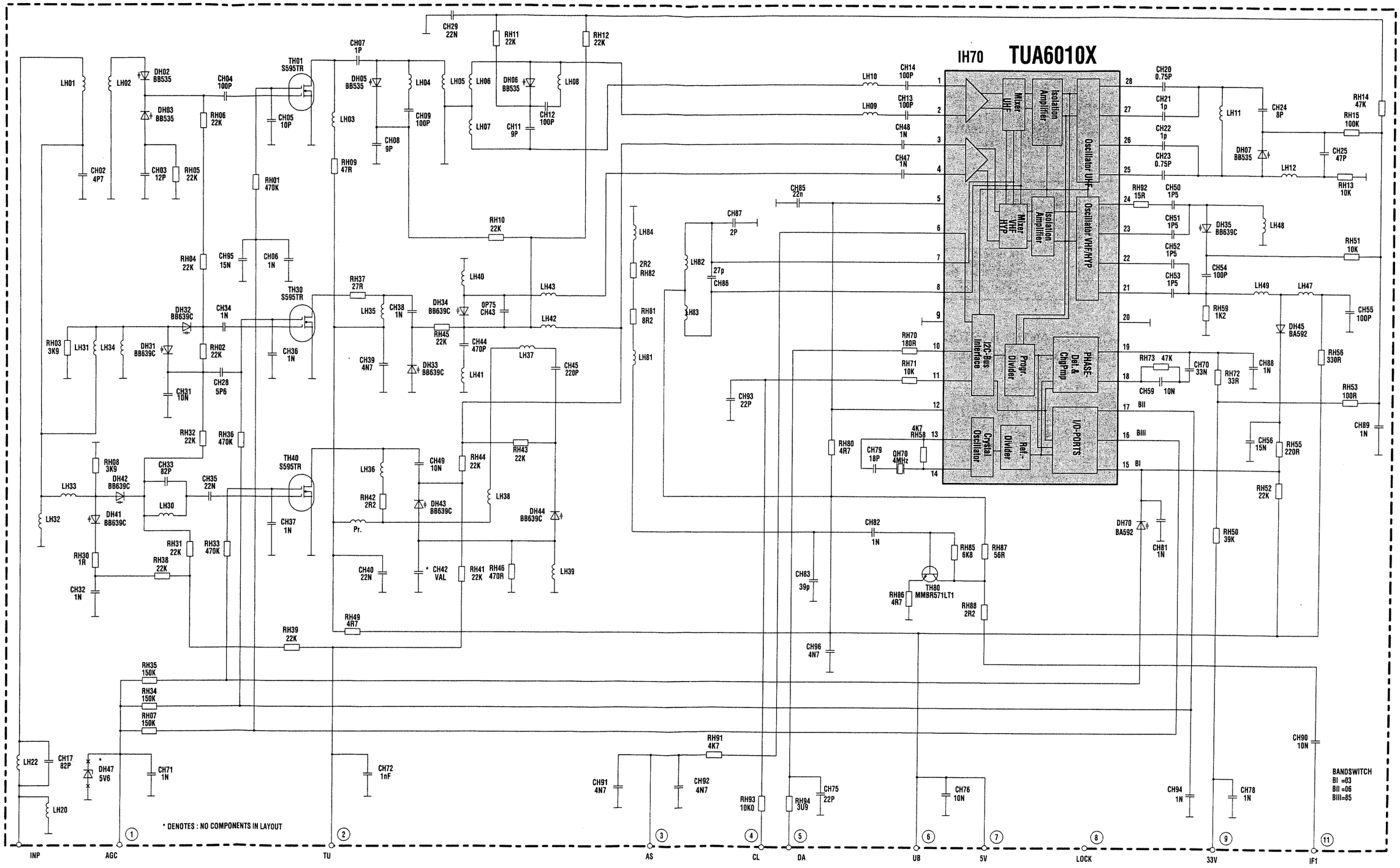


COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS




IH70 TUA6010X
Mixer UHF
Isolation Amplifier
Oscillator UHF
Mixer VHF HYP
Isolation Amplifier
Oscillator VHF/HYP
I2C-Bus Interface
Progr. Divider
PHASE-Det. & ChgPmp
Crystal Oscillator
Ref.-Divider
I/O-PORTS
LH01 LH02 LH03 LH04 LH05 LH06 LH07 LH08 LH09 LH10 LH11 LH12 LH30 LH31 LH32 LH33 LH34 LH35 LH36 LH37 LH38 LH39 LH40 LH41 LH42 LH43 LH48 LH49 LH47 LH81 2R2 RH82 LH82 LH83 LH84
CH02 4P7 CH03 12P CH04 100P CH05 10P CH06 1N CH07 1P CH08 9P CH09 100P CH11 9P CH12 100P CH13 100P CH14 100P CH17 82P CH20 0.75P CH21 1p CH22 1p CH23 0.75P CH24 8P CH25 47P CH28 5P6 CH29 22N CH31 10N CH32 1N CH33 82P CH34 1N CH35 22N CH36 1N CH37 1N CH38 1N CH39 4N7 CH40 22N CH42 VAL CH44 470P CH45 220P CH47 1N CH48 1N CH49 10N CH50 1P5 CH51 1P5 CH52 1P5 CH53 1P5 CH54 100P CH55 100P CH56 15N CH59 10N CH70 33N CH71 1N CH72 1nF CH75 22P CH76 10N CH78 1N CH81 1N CH82 1N CH83 39p CH85 22n CH86 27p CH87 2P CH88 1N CH89 1N CH90 10N CH91 4N7 CH92 4N7 CH93 22P CH94 1N CH95 15N CH96 4N7
RH01 470K RH02 22K RH03 3K9 RH04 22K RH05 22K RH06 22K RH07 150K RH08 3K9 RH09 47R RH10 22K RH11 22K RH12 22K RH13 10K RH14 47K RH15 100K RH30 1R RH31 22K RH32 22K RH33 470K RH34 150K RH35 150K RH36 470K RH37 27R RH38 22K RH39 22K RH41 22K RH42 2R2 RH43 22K RH44 22K RH45 22K RH46 470R RH49 4R7 RH50 39K RH51 10K RH52 22K RH53 100R RH55 220R RH56 330R RH59 1K2 RH70 180R RH71 10K RH72 33R RH73 47K RH80 4R7 RH85 6K8 RH86 4R7 RH87 56R RH88 2R2 RH91 4K7 RH92 15R RH93 10K0 RH94 3U9 4K7 RH58
DH02 BB535 DH03 BB535 DH05 BB535 DH06 BB535 DH07 BB535 DH31 BB639C DH32 BB639C DH33 BB639C DH34 BB639C DH35 BB639C DH41 BB639C DH42 BB639C DH43 BB639C DH44 BB639C DH45 BA592 DH47 5V6 DH70 BA592
TH01 S595TR TH30 S595TR TH40 S595TR TH80 MMBR571LT1
QH70 4MHz
BII BIII BI
BANDSWITCH BI =03 BII =06 BIII=85
* DENOTES : NO COMPONENTS IN LAYOUT
INP AGC TU AS CL DA UB 5V LOCK 33V IF1

COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE - LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

1 2 3

BA001 Q5
BA005 P8
BA007 U8
BA009 S9
BA010 Q6
BA012 P7
BA015 T9
BA016 T1
BA017 P0
BA018 Q0
BA019 R0
BA020 T5
BA021 T6
BA022 T7
BA023 Q3
BP500 A8
BP501 I6
BR001 D10
BR002 H10
BR004 E7
BR005 F5
BR006 D8
BR007 D8
BR008 D5
BR011 E2
BV001 E5
BV010 G9
BV300 F10
BX001 O0
BX004 B2
BX006 E1
BX100 K0
BX200 G0
BX300 C0
BX801 L6
BX802 F3
BX810 M10

CA001 R5 *
CA004 R2 *
CA005 S2 *
CA006 S2 *
CA007 S2 *
CA008 R2 *
CA009 R2 *
CA011 J1
CA012 J1
CA013 K0 *
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CX926 H1

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DX631 F3
DX701 O6
DX702 O6

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FI021 M5
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FI028 K4
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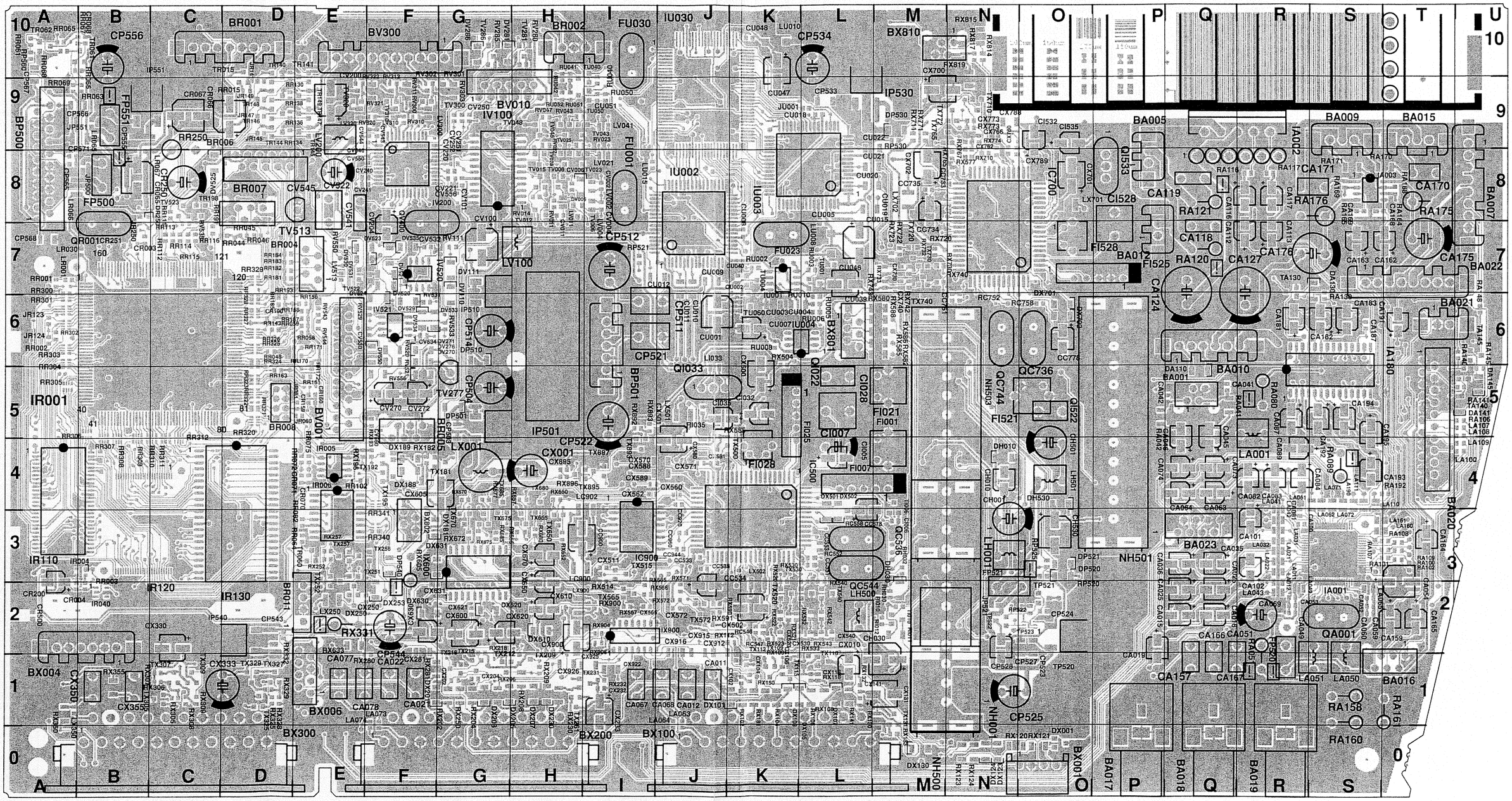
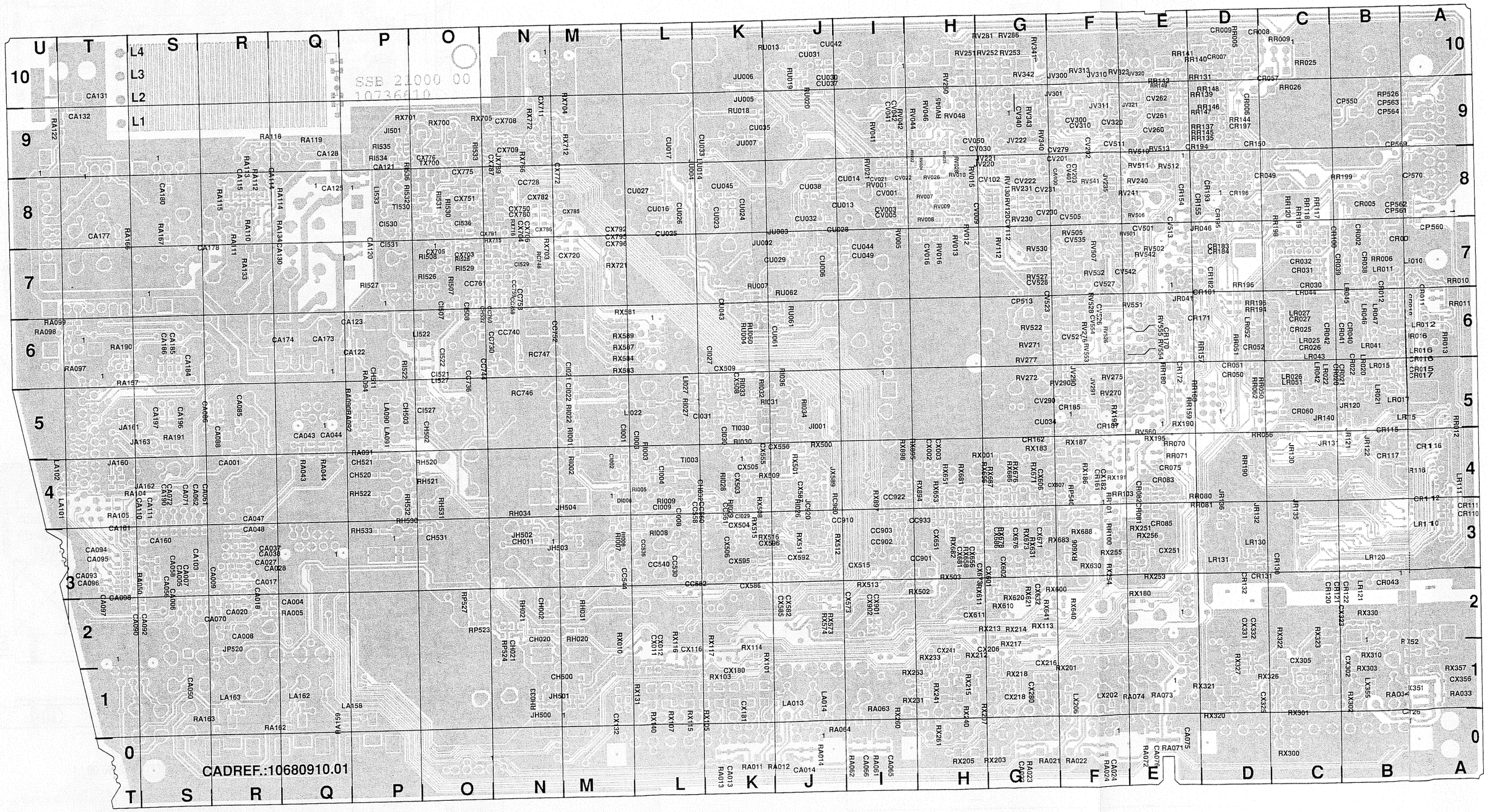
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



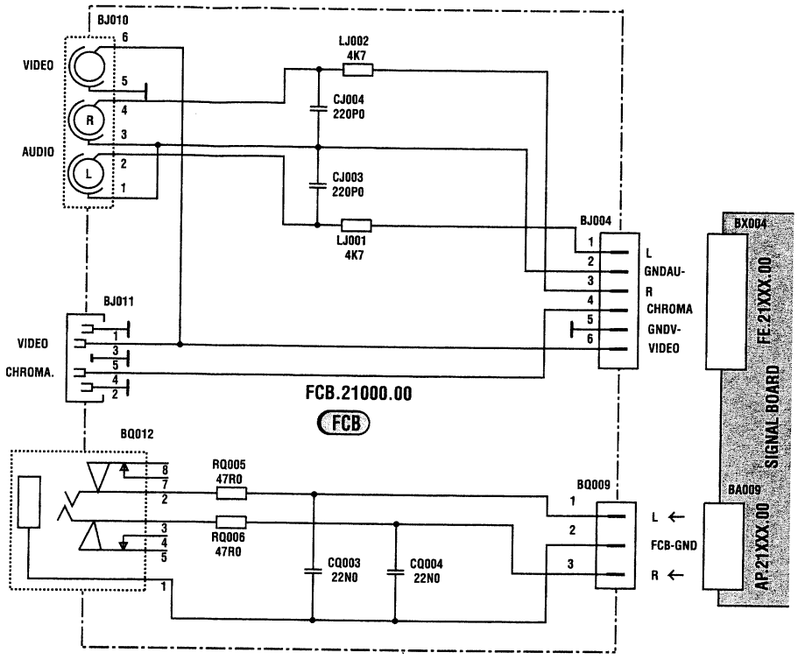
SMALL SIGNAL BOARD - PLATINE PETITS SIGNAUX - SIGNAL-PLATINE - PIASTRA PICCOLI SEGNALI - PLACA PEQUEÑA SEÑAL

SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER -FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

FCB.21000.00



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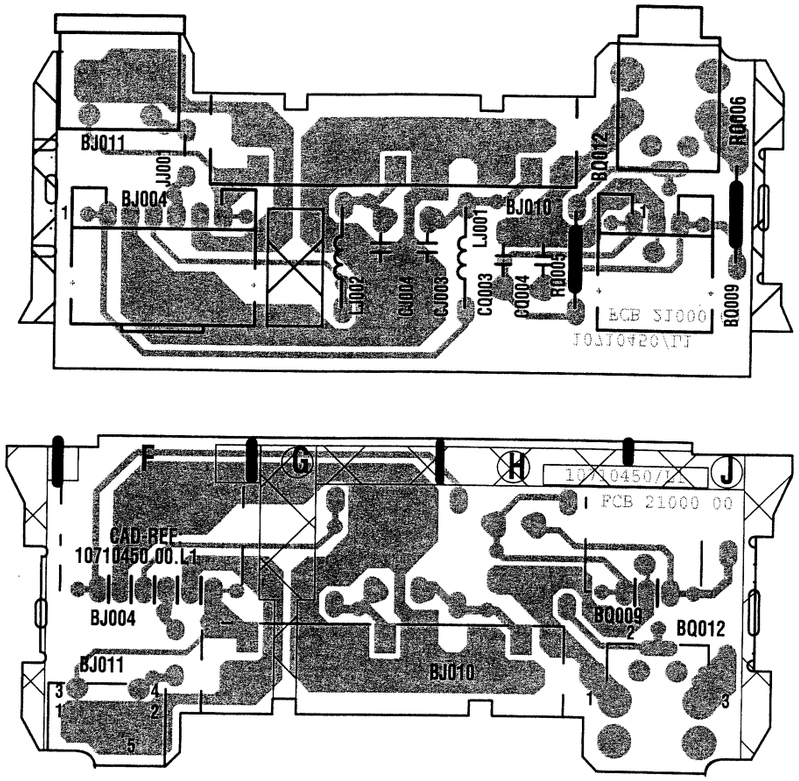

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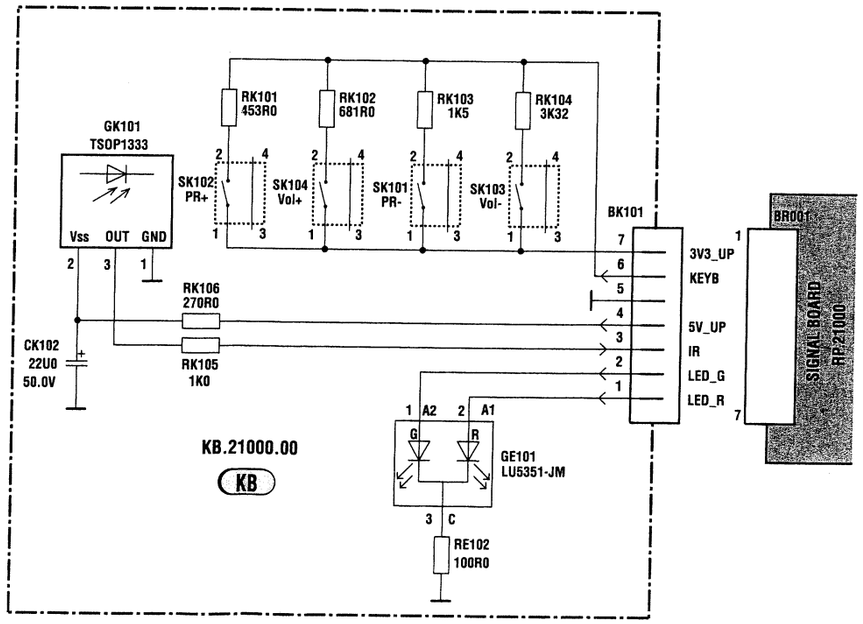

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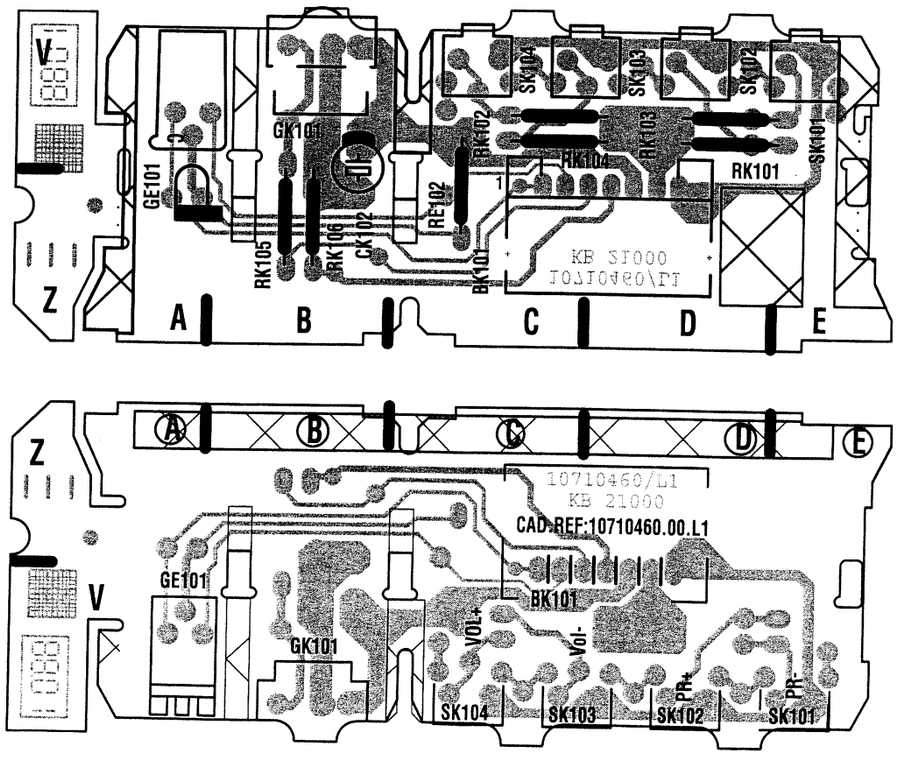
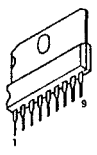


INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
CIRCUITOS INTEGRADOS Y TRANSISTORES



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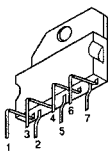

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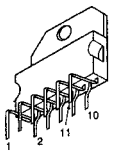

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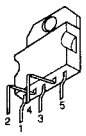

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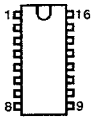

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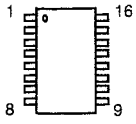

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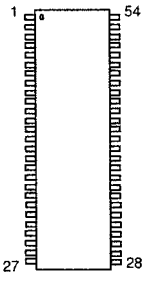

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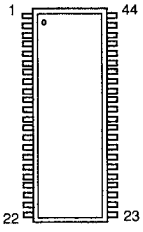

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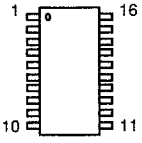

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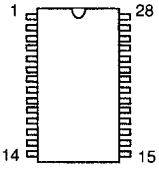

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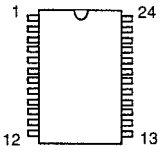

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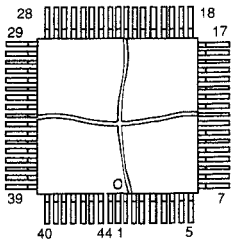

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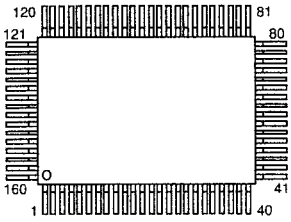

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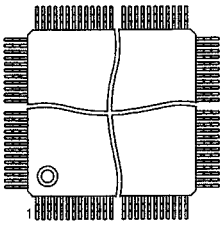

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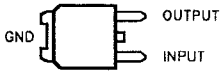

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BCR141-BCR141N
BCR191-BF660
DTC113ZK

LM431
1: REFERENCE
2:ANODE
3:CATHODE

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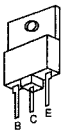

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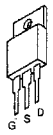

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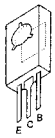
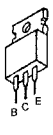


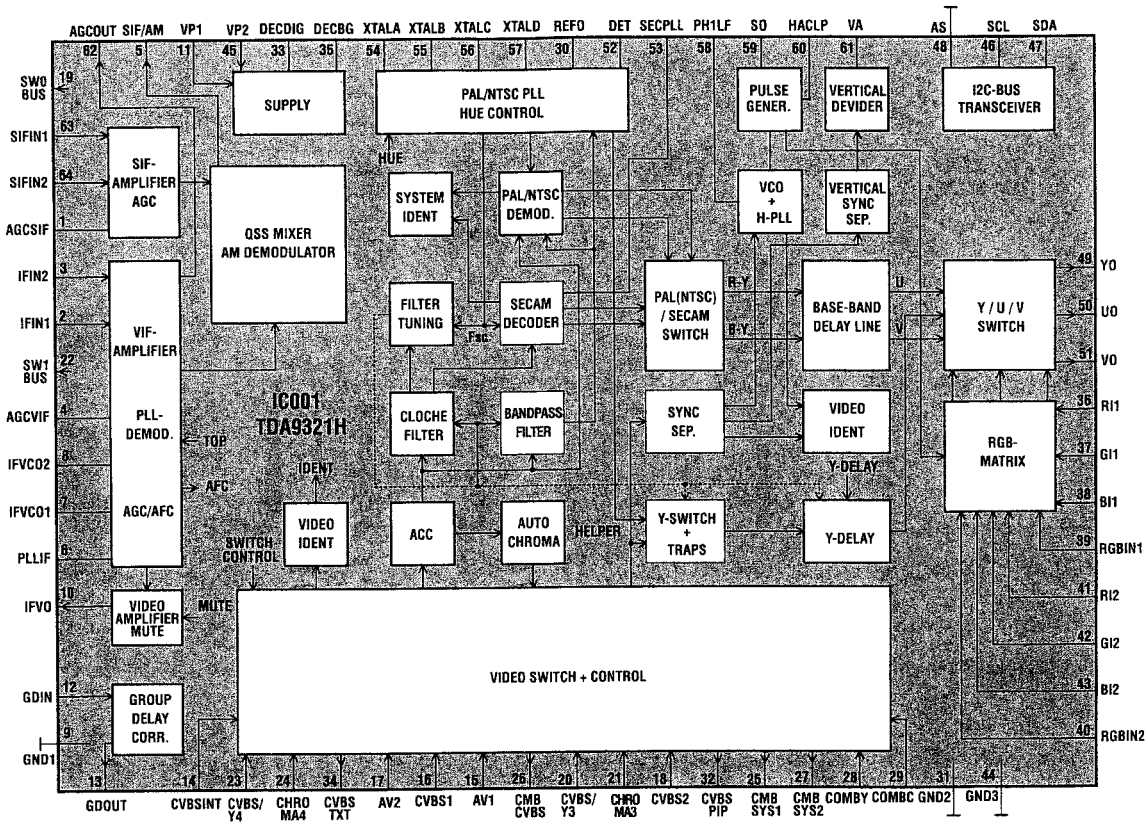
BD139
BD140



2SC3675

INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES - INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBILDER SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

IC500 - IC700 - TDA9321H



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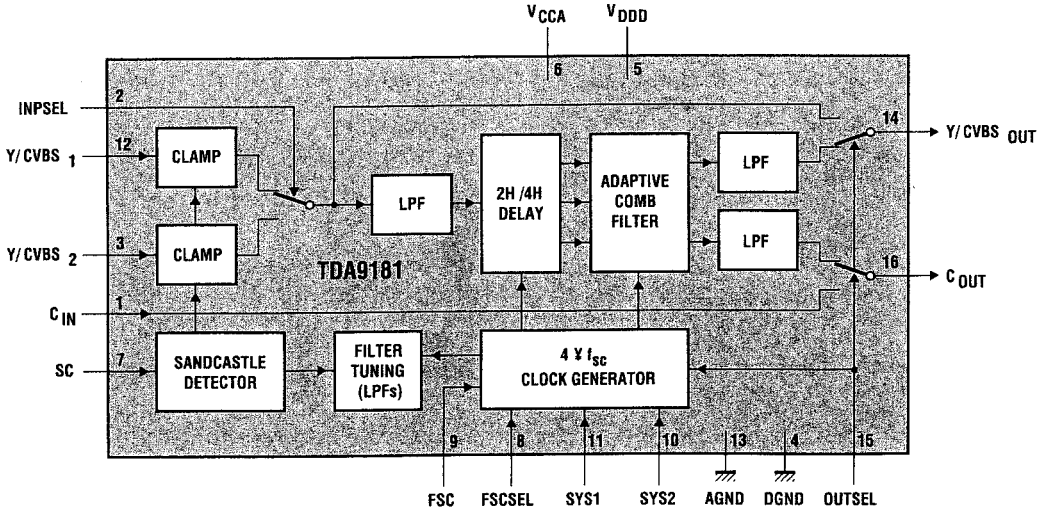

LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS - ABKÜRZUNGEN
LISTA DELLE ABBREVIAZIONI - LISTA DE ABREVIACIONES

- **ABL** AVERAGE BEAM CURRENT LIMITING
- **AQR_ON** DISABLE AQUISITION MODE REGUL.
  ENABLE PWM PULSE
- **AV1_8** PIN_8 DETECTOR
- **AV_LINK** AV_LINK DATAS VCR/TV
- **AV_R_ OUT** AUDIO RIGHT-OUT
- **AV_L_ OUT** AUDIO LEFT-OUT
- **AV_R_ IN** AUDIO RIGHT-IN
- **AV_L_ IN** AUDIO LEFT-IN
- **AV_B** BLUE SIGNAL FROM AV
- **AV_G** GREEN SIGNAL FROM AV
- **AV_R** RED SIGNAL FROM AV
- **AV_C_ IN** CHROMA-IN
- **AV_FB** FAST BLANK SIGNAL FROM AV SCART
- **AV_Y_ IN** VIDEO-IN
- **BEAM_INFO** BEAM CURRENT INFORMATION
- **BLKCURR** CUT OFF CURRENT
- **B_TXT** BLUE SIGNAL OUTPUT (TEXT)
- **B_OUT** BLUE SIGNAL TO VIDEO AMPLIFIER
- **BREATHING** COMPENSATE BREATHING PICTURE SIGNAL
- **BSVM** BEAM SCAN VELOCITY MODULATION
- **CNT1_20V** SAFETY SIGNAL TO INSURE A GOOD CONNECTION BETWEEN SIGNAL BOARD AND POWER BOARD (BV001- BL111)
- **CNT2_20V** SAFETY SIGNAL TO INSURE A GOOD CONNECTION BETWEEN SIGNAL BOARD AND POWER BOARD (BR003- BP005)
- **CRT** CATHODE RAY TUBE
- **CVBS** VIDEO
- **CVBS_M_IN** MASTER VIDEO FROM CHROMA DECODER
- **CVBS_S_IN** SLAVE VIDEO FROM CHROMA DECODER
- **DEFL_SAFETY** SAFETY INFORMATION FROM DEFLECTION
- **DEGAUSS** DEGAUSS SIGNAL
- **DPC** DYNAMIC PHASE COMPENSATION SIGNAL
- **EFC** EARTH FIELD CORRECTION
- **EHT** EXTREMELY HIGH TENSION
- **E.W_DRIVE** EAST - WEST DRIVE SIGNAL
- **EW_PROT** SAFETY SIGNAL FROM DIODE MODULATOR
- **FB DETEC** FAST BLANKING DETECT
- **FB_TXT** FAST BLANKING (TEXT)
- **FW ADJ.** FULL WHITE ADJUSTMENT
- **G_OUT** GREEN SIGNAL TO VIDEO AMPLIFIER
- **G_TXT** GREEN SIGNAL OUTPUT (TEXT)
- **H_DRIVE** DRIVE SIGNAL FOR HORIZONTAL DEFLECTION
- **HEATER** HEATER OUTPUT FROM THE DST TO CRT
- **H DEFL. PROT.** HORIZONTAL DEFLECTION PROTECTION
- **IIC_CL** I2C CLOCK BUS
- **IIC_DATA** I2C DATA BUS
- **INF_POW_FAIL** POWER FAIL INFORMATION
- **IR** INFRARED RECEIVER
- **LDR** LIGHT DEPENDENT RESISTOR
- **MUTE** MUTES AUDIO AMPLFIERS
- **PHI2_REF** PHI2 REFERENCE SIGNAL
- **PIF** PICTURE IF SIGNAL
- **PKS** PEAK SENSING
- **PO** POWER ON
- **PWM** PULSE WIDTH MODULATION
- **RES_MSP** MSP RESET
- **RESET** RESET TO MICROPROCESSOR
- **ROTATION** OUTPUT OF EARTH FIELD CORRECTION STAGE
- **R_OUT** RED SIGNAL TO VIDEO AMPLIFIER
- **R_TXT** RED SIGNAL OUTPUT (TEXT)
- **PIF** PICTURE IF SIGNAL
- **SIF** SOUND IF SIGNAL
- **SSC** SUPER SAND CASTLE
- **SSC_V_GUARD** SAFETY DATA GENERATED BY THE VERTICAL AMPLIFIER TDA8177F
- **TRAP_INFO** BG/L,L',D/K K' I SWITCH
- **TUBE_DETET.** SELECTS 16:9 OR 4:3 TUBES
- **U_OUT** U TO VIDEO PART
- **U_M_IN** U MASTER FROM CHROMA DECODER
- **U_S_IN** U SLAVE FROM CHROMA DECODER
- **+USYS** SYSTEM VOLTAGE
- **+/- UA** SOUND VOLTAGE
- **+UVERT** POSITIVE SUPPLY VERTICAL VOLTAGE
- **-UVERT** NEGATIVE SUPPLY VERTICAL VOLTAGE
- **+UVFB** POSITIVE SUPPLY VOLTAGE FOR VERTICAL POWER STAGE
- **+UVIDEO** VIDEO VOLTAGE FOR THE CRT BOARD
- **U_S_IN** U SLAVE FROM CHROMA DECODER
- **V_M_IN** V MASTER FROM CHROMA DECODER
- **V_S_IN** V SLAVE FROM CHROMA DECODER
- **V_DRIVE** VERTICAL DEFLECTION DRIVE SIGNAL
- **V_OUT** V TO VIDEO PART
- **V_S_IN** V SLAVE FROM CHROMA DECODER
- **Y_M_IN** Y MASTER FROM CHROMA DECODER
- **Y_S_IN** Y SLAVE FROM CHROMA DECODER
- **Y_OUT** Y TO VIDEO PART
- **1V8_STBY** 1V8 STANDBY
- **3V3** 3V3 POWER SUPPLY UP CONVERTER PART OF SIGNAL BOARD
- **3V3_STBY** 3V3 STANDBY
- **5V_A / 5V_V** 5V POWER SUPPLY SIGNAL BOARD
- **5V_STBY** 5V STANDBY
- **5V_UP** MICROPROCESSOR SUPPLY VOLTAGE
- **10 V** SUPPLIES THE 8V REGULATORS ON
- SIGNAL BOARD
- **8V_1H** 8V SUPPLY FOR 1H VIDEO PROCESSING
- **8V_2H** 8V SUPPLY FOR 2H VIDEO PROCESSING
- **8V_5** 8V5 POWER SUPPLY FRONT END AND
- SCART PART OF SIGNAL BOARD
- **7V_STBY** 7V STANDBY
- **40V** SUPPLY VOLTAGE TUNER
- **20V** SUPPLY VOLTAGE HORIZONTAL DRIVER AND BSVM CRT